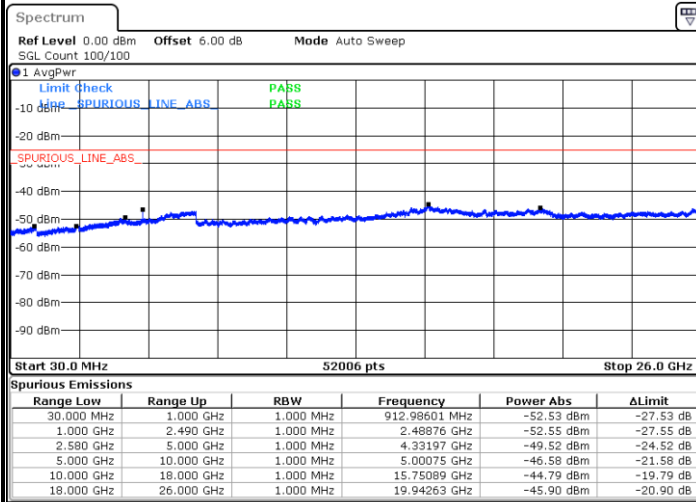




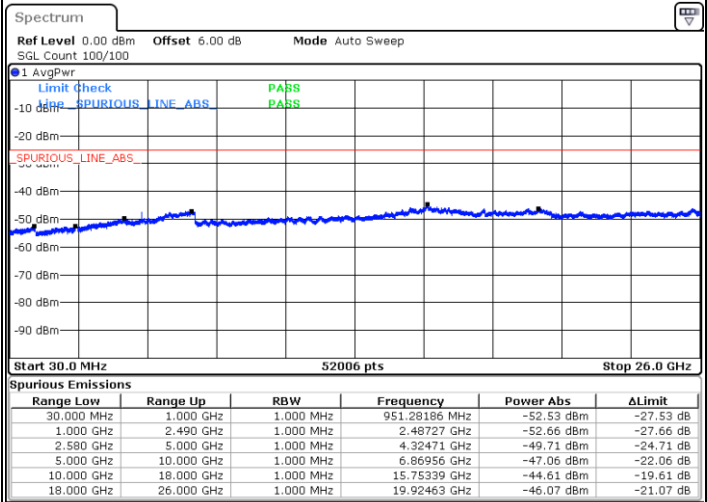
LTE Band 7 / 5MHz

Lowest Channel / QPSK



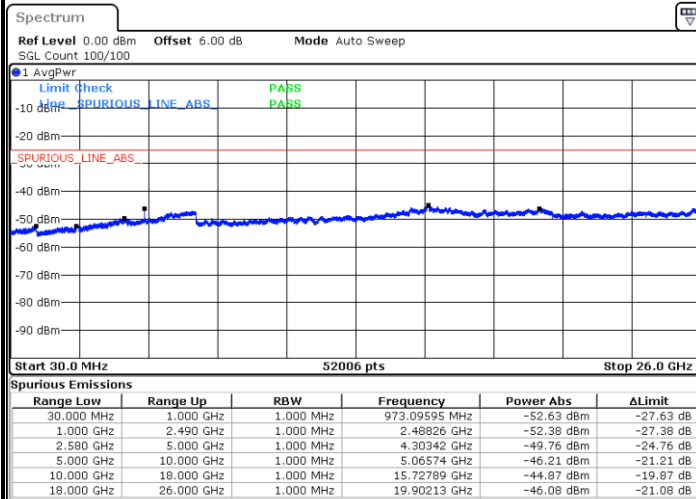
Date: 25.OCT.2019 22:47:06

Lowest Channel / 16QAM



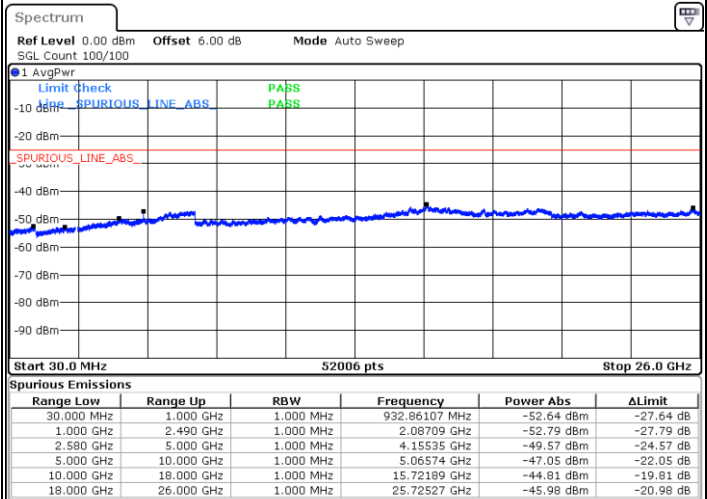
Date: 25.OCT.2019 22:48:00

Middle Channel / QPSK



Date: 25.OCT.2019 22:49:48

Middle Channel / 16QAM

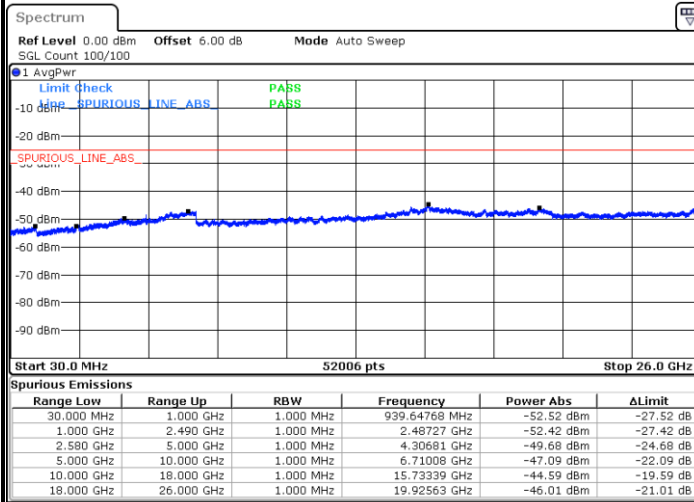


Date: 25.OCT.2019 22:48:54



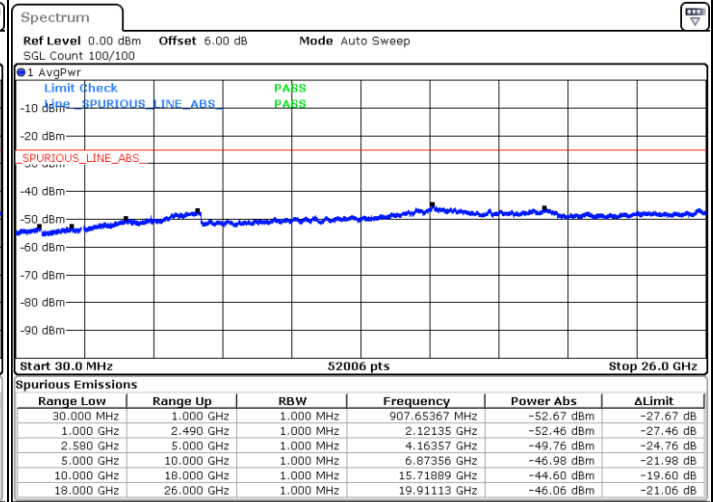
LTE Band 7 / 5MHz

Highest Channel / QPSK



Date: 25.OCT.2019 22:50:42

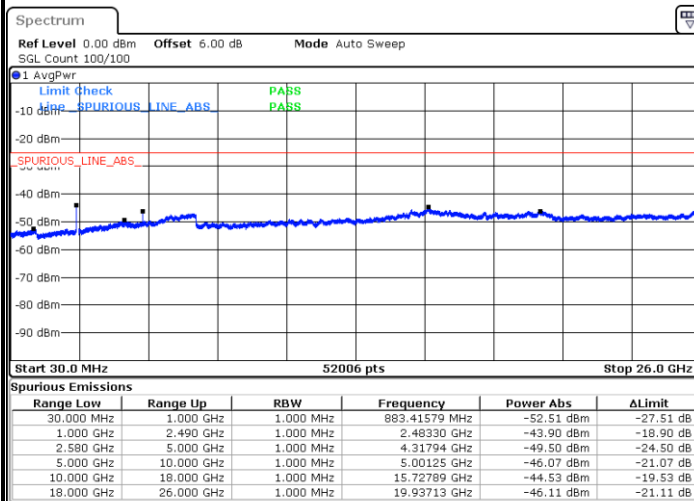
Highest Channel / 16QAM



Date: 25.OCT.2019 22:51:35

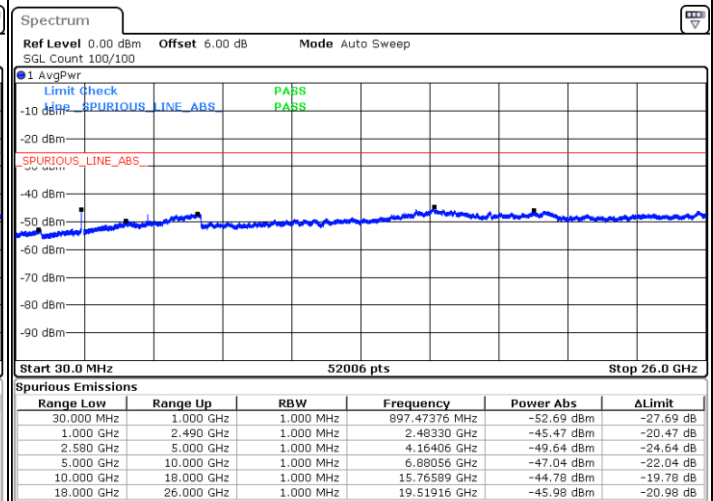
LTE Band 7 / 10MHz

Lowest Channel / QPSK



Date: 25.OCT.2019 23:03:32

Lowest Channel / 16QAM

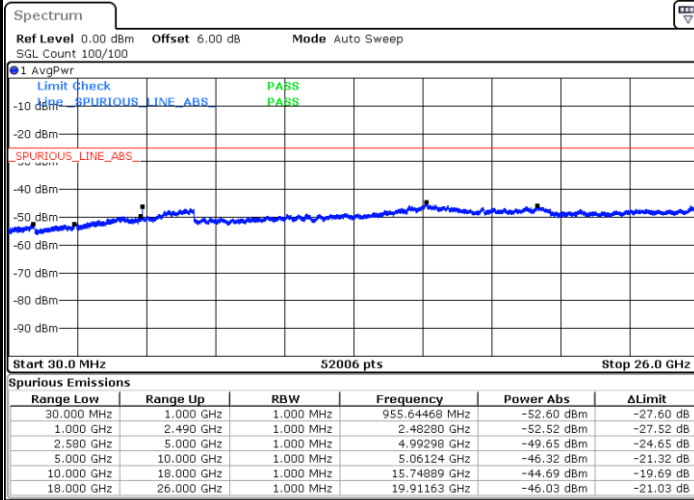


Date: 25.OCT.2019 23:04:26



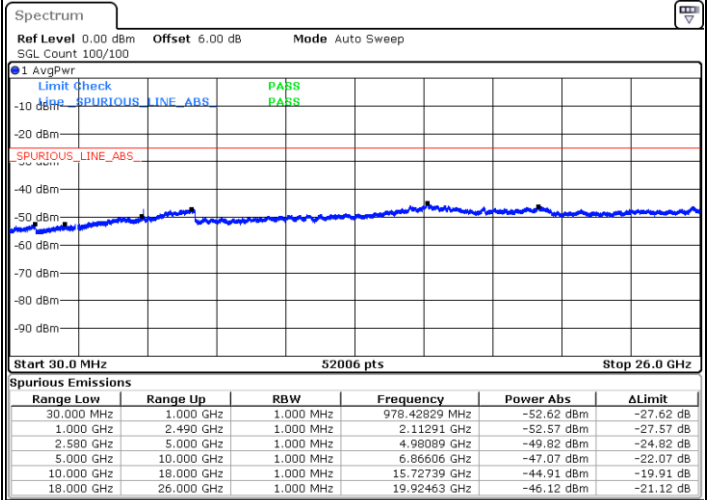
LTE Band 7 / 10MHz

Middle Channel / QPSK



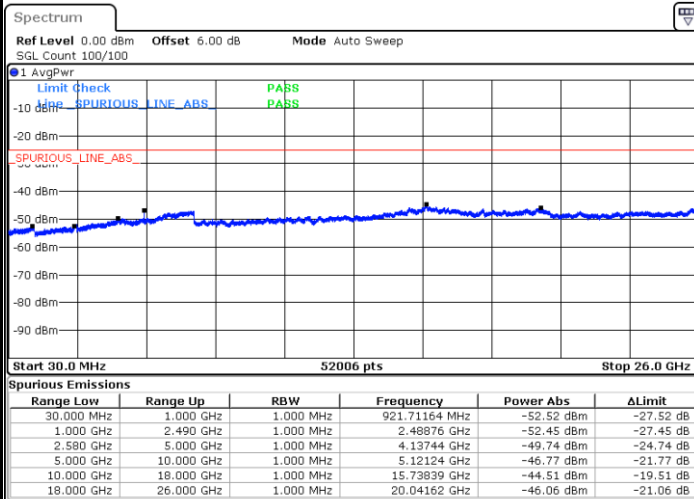
Date: 25.OCT.2019 23:06:14

Middle Channel / 16QAM



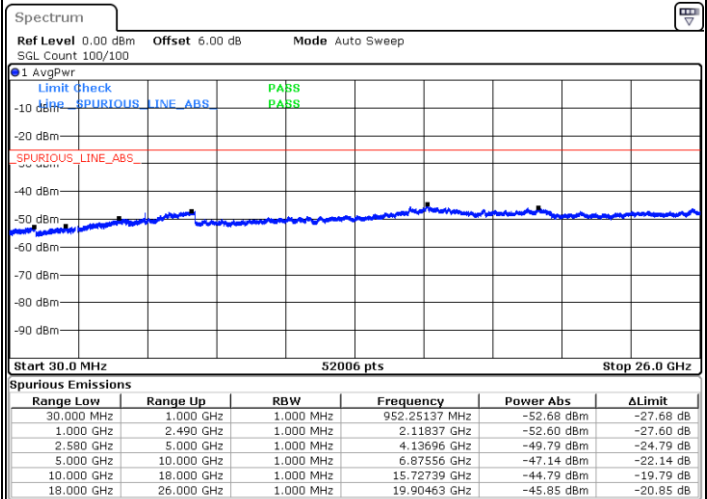
Date: 25.OCT.2019 23:05:20

Highest Channel / QPSK



Date: 25.OCT.2019 23:07:08

Highest Channel / 16QAM

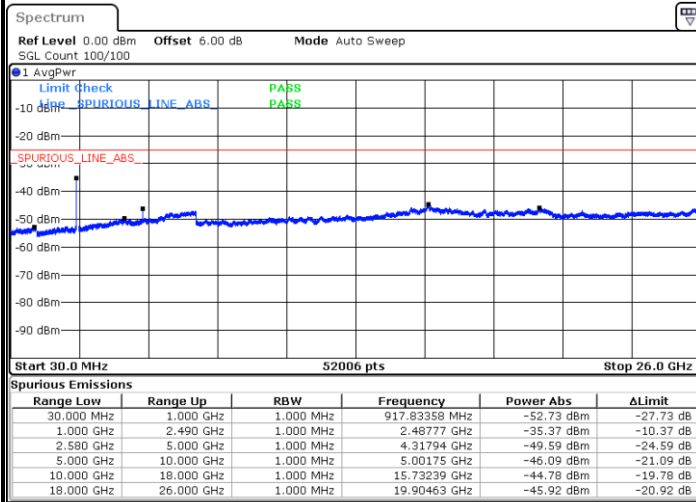


Date: 25.OCT.2019 23:08:01



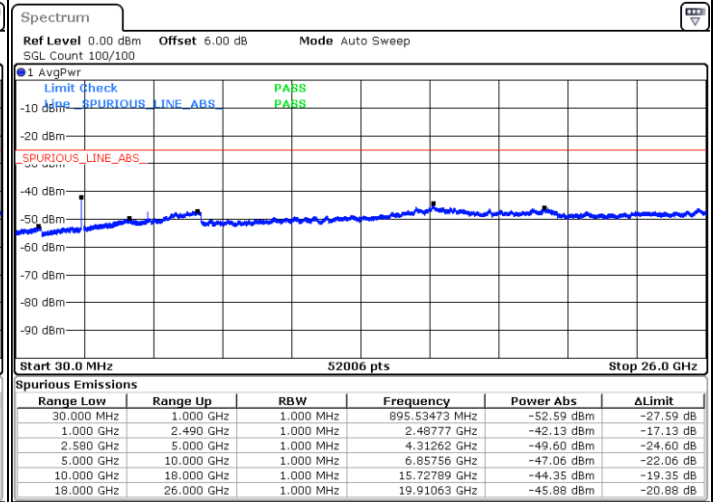
LTE Band 7 / 15MHz

Lowest Channel / QPSK



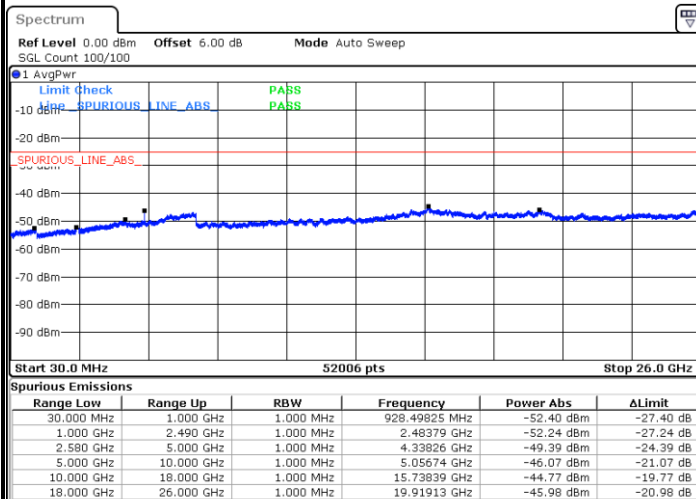
Date: 25.OCT.2019 23:38:43

Lowest Channel / 16QAM



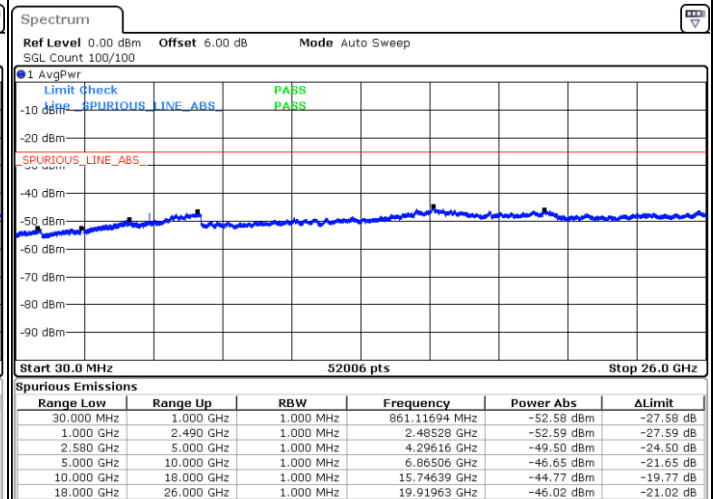
Date: 25.OCT.2019 23:39:37

Middle Channel / QPSK



Date: 25.OCT.2019 23:41:24

Middle Channel / 16QAM

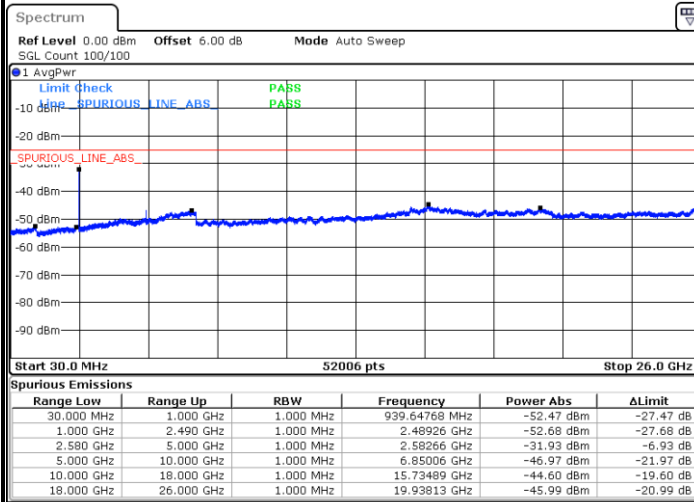


Date: 25.OCT.2019 23:40:31



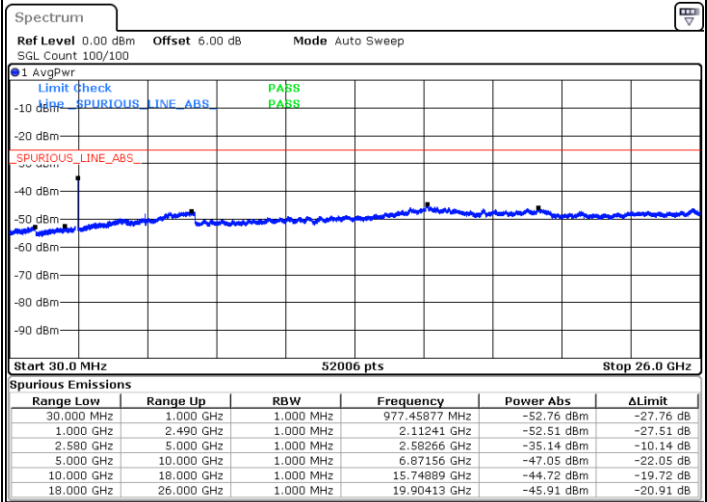
LTE Band7 / 15MHz

Highest Channel / QPSK



Date: 25.OCT.2019 23:42:18

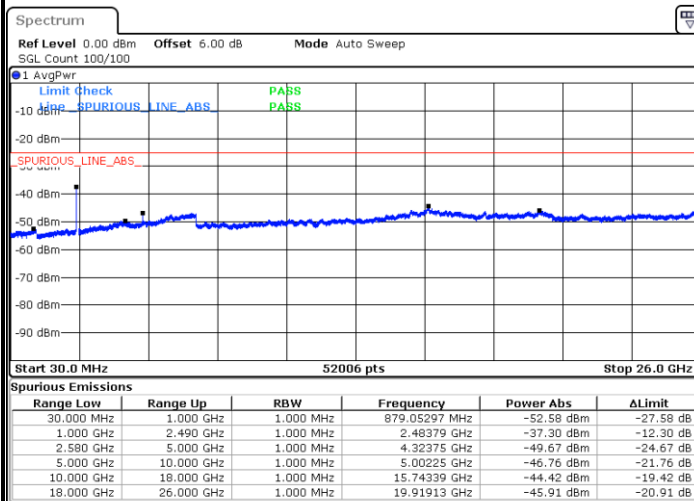
Highest Channel / 16QAM



Date: 25.OCT.2019 23:43:12

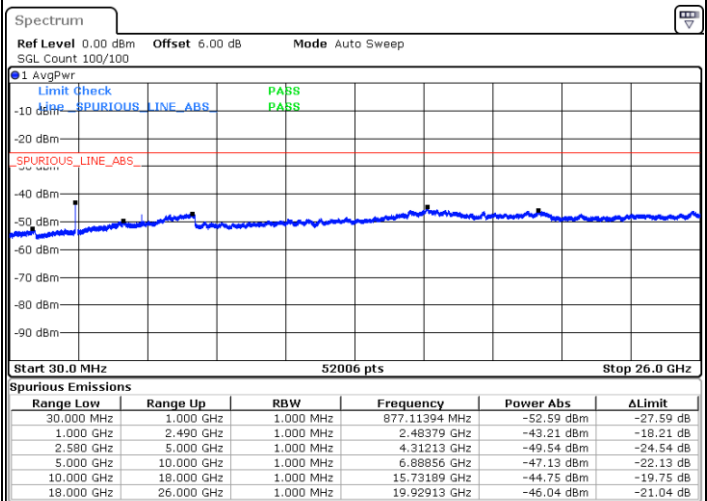
LTE Band 7 / 20MHz

Lowest Channel / QPSK



Date: 25.OCT.2019 23:55:10

Lowest Channel / 16QAM

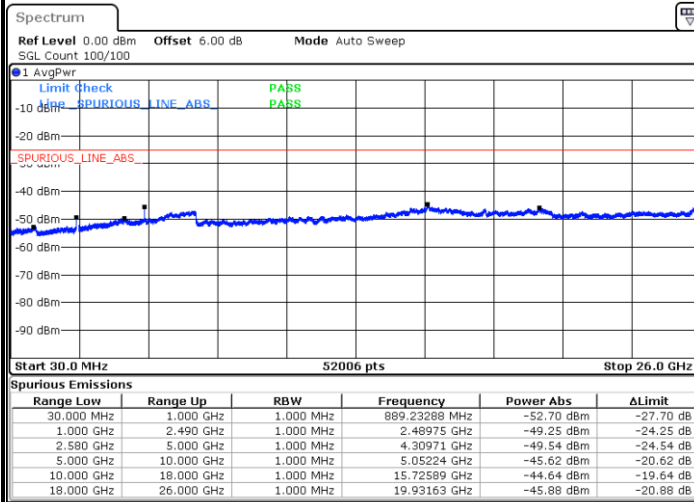


Date: 25.OCT.2019 23:56:03



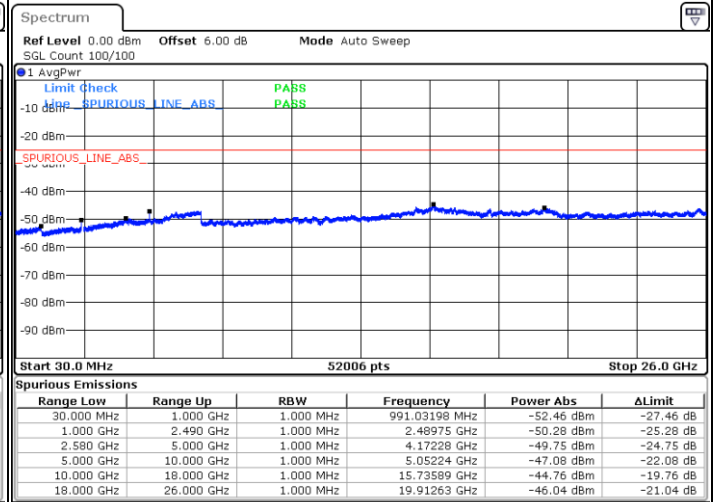
LTE Band 7 / 20MHz

Middle Channel / QPSK



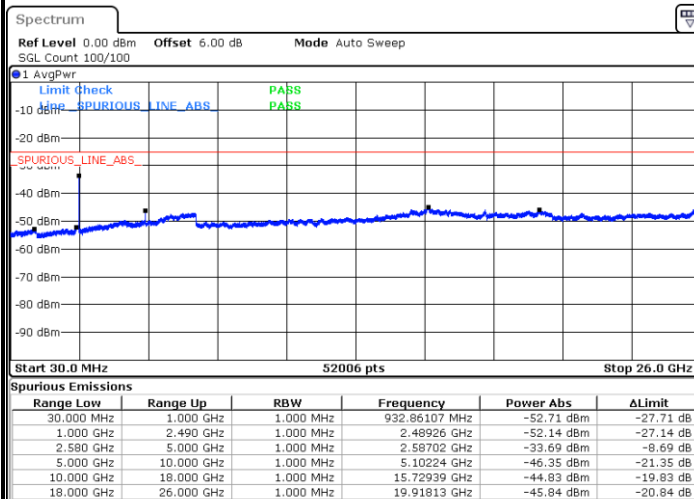
Date: 25.OCT.2019 23:57:51

Middle Channel / 16QAM



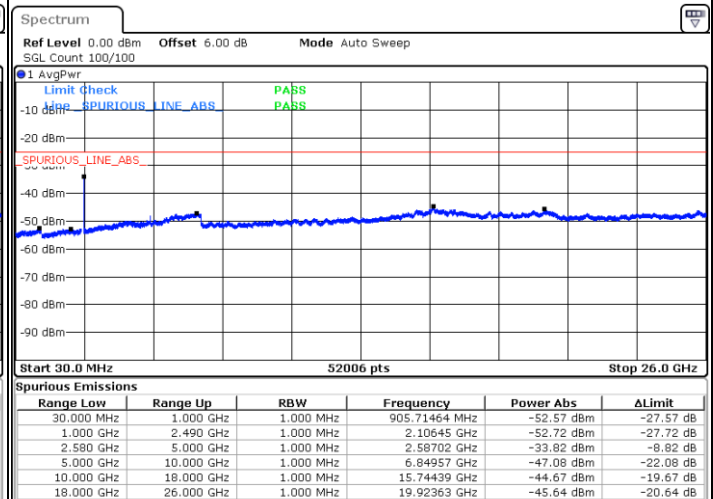
Date: 25.OCT.2019 23:56:57

Highest Channel / QPSK



Date: 25.OCT.2019 23:58:45

Highest Channel / 16QAM



Date: 25.OCT.2019 23:59:38

Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0056	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0051	
0	Normal Voltage	0.0049	
-10	Normal Voltage	0.0047	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0064	
20	Battery End Point	0.0016	

Note:

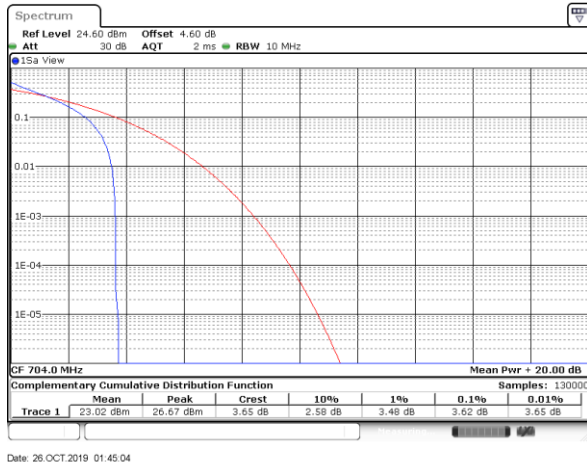
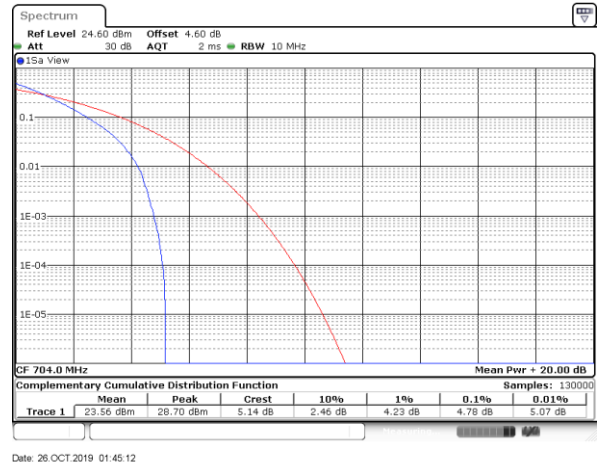
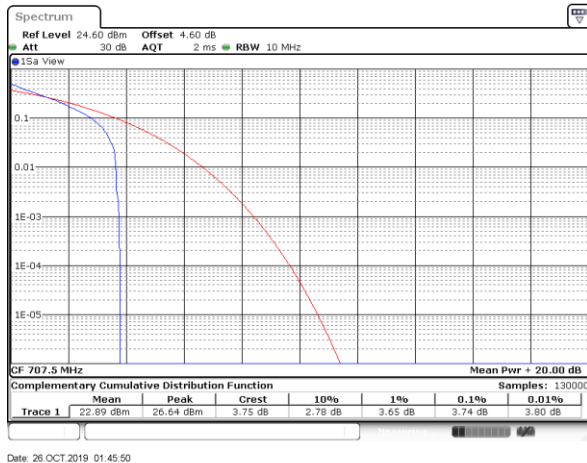
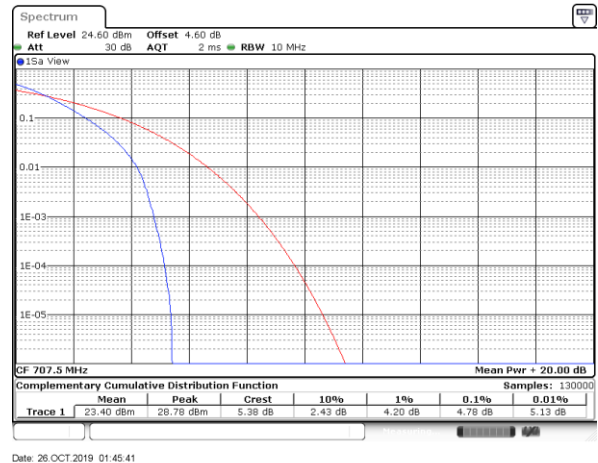
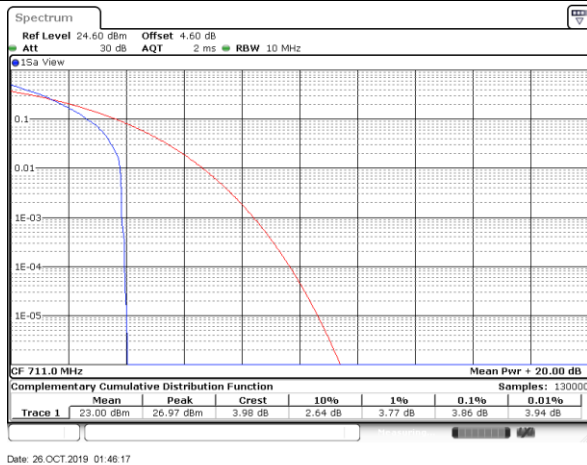
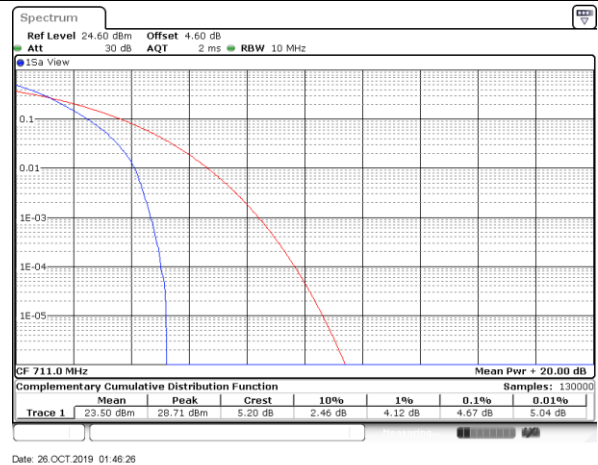
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 12

Peak-to-Average Ratio

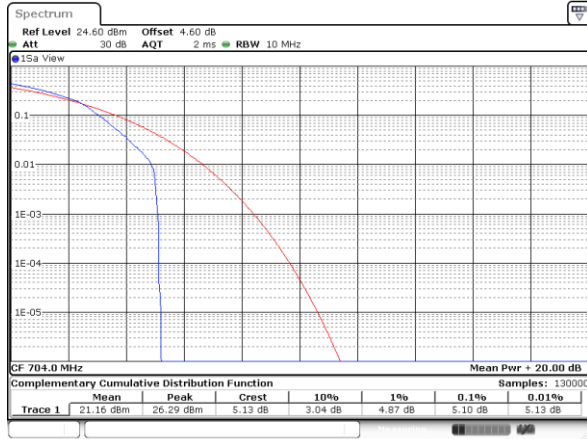
Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.62	4.78	5.10	5.77	PASS
Middle CH	3.74	4.78	4.67	5.83	
Highest CH	3.86	4.67	5.04	5.74	

LTE Band 12 / 10MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


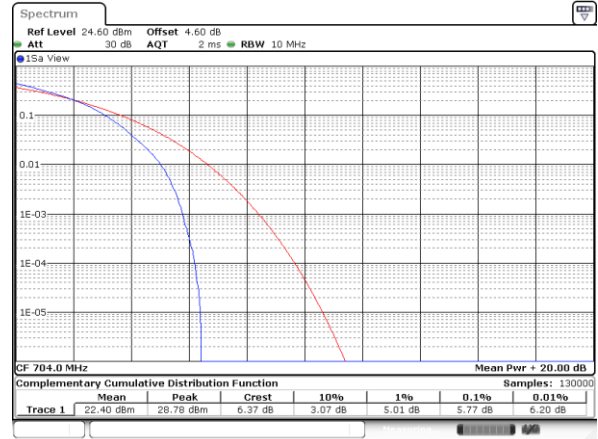


LTE Band 12 / 10MHz / 16QAM

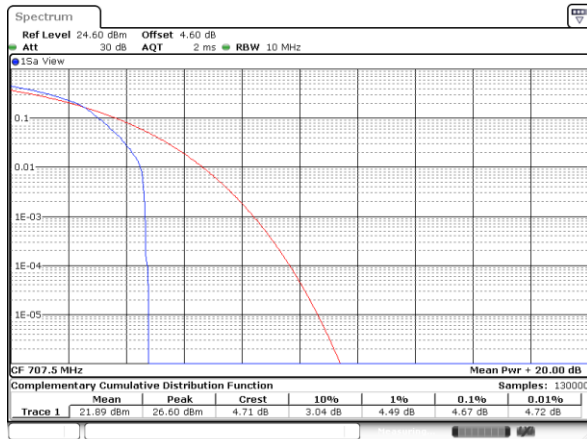
Lowest Channel / 1RB



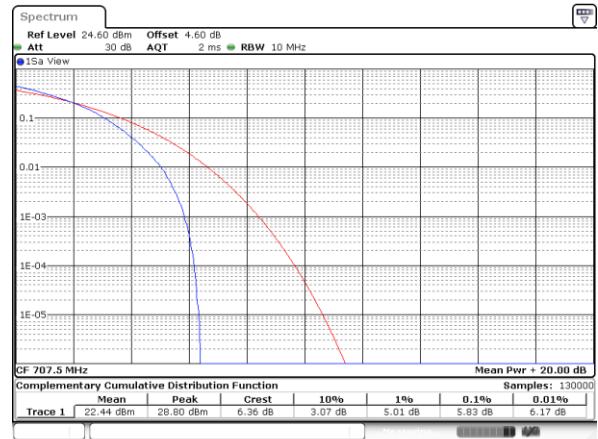
Lowest Channel / Full RB



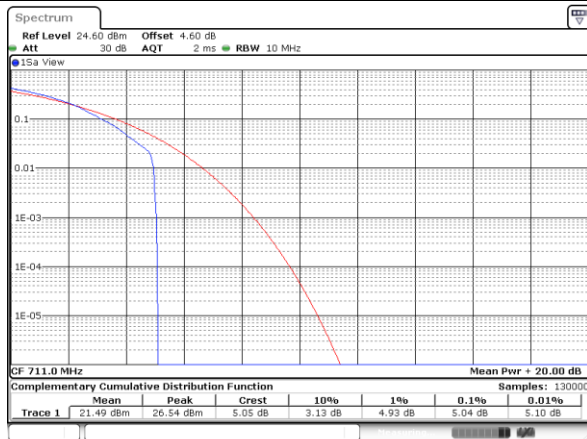
Middle Channel / 1RB



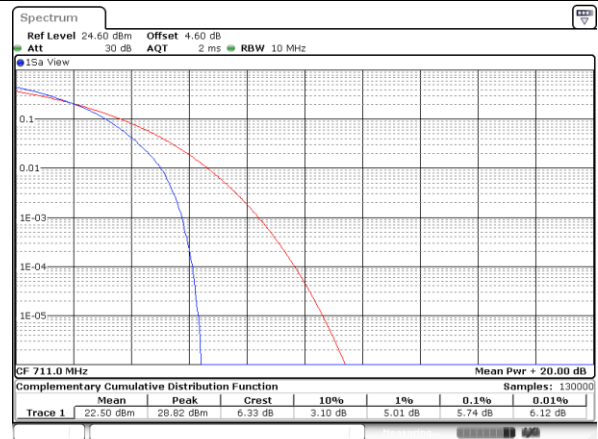
Middle Channel / Full RB



Highest Channel / 1RB



Highest Channel / Full RB





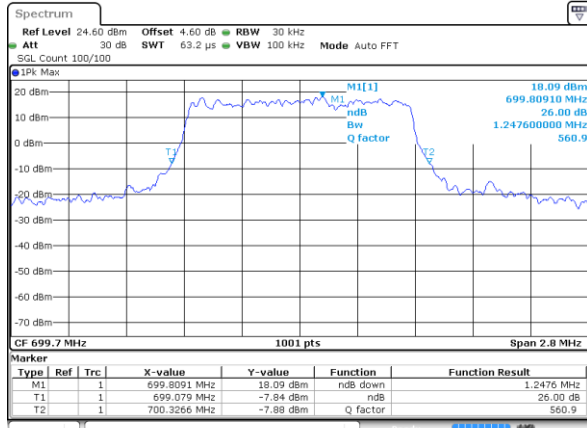
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.248	1.287	3.003	3.063	4.925	4.955	9.77	9.57
Middle CH	1.250	1.284	3.015	3.039	4.875	4.865	9.81	9.75
Highest CH	1.276	1.298	2.991	3.033	4.915	4.855	9.83	9.79



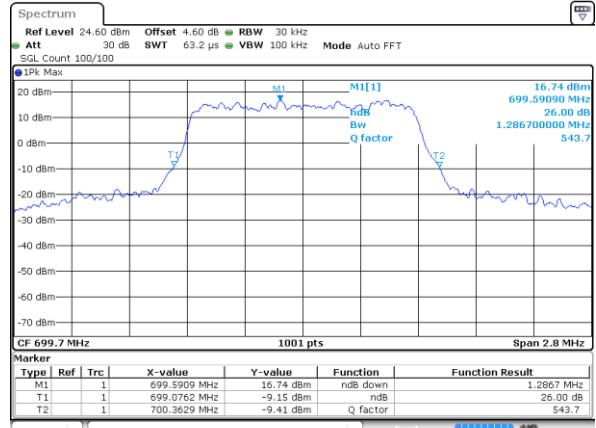
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



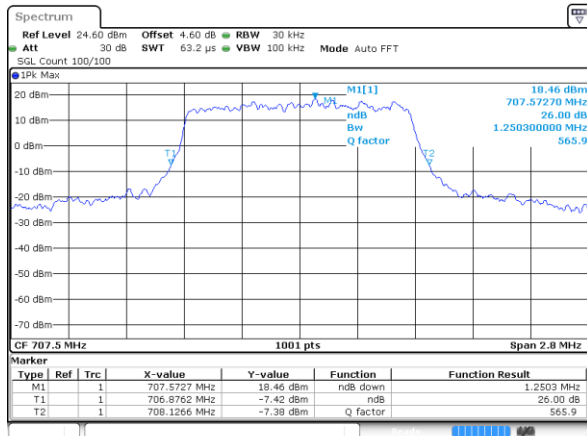
Date: 26 OCT 2019 00:40:51

Lowest Channel / 1.4MHz / 16QAM



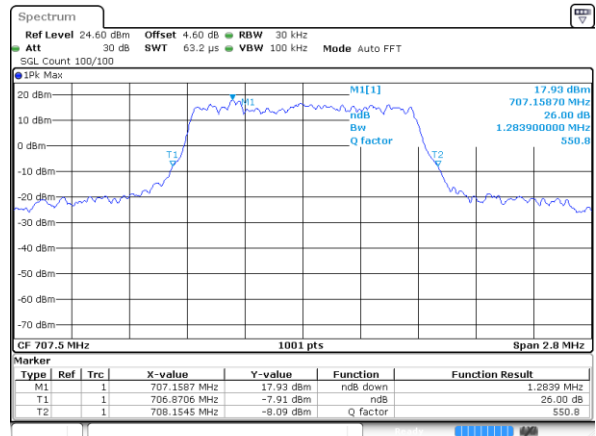
Date: 26 OCT 2019 00:40:41

Middle Channel / 1.4MHz / QPSK



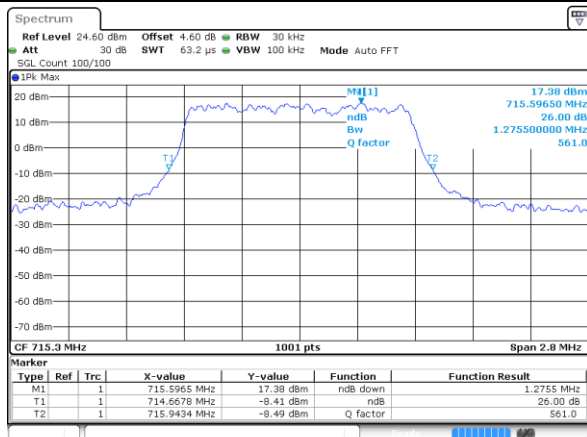
Date: 26 OCT 2019 00:40:21

Middle Channel / 1.4MHz / 16QAM



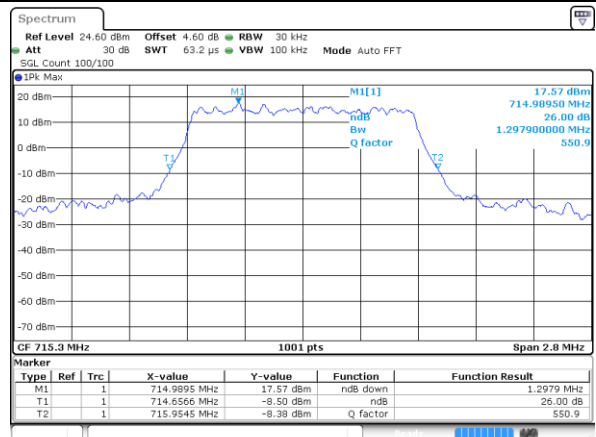
Date: 26 OCT 2019 00:40:31

Highest Channel / 1.4MHz / QPSK



Date: 26 OCT 2019 00:40:11

Highest Channel / 1.4MHz / 16QAM

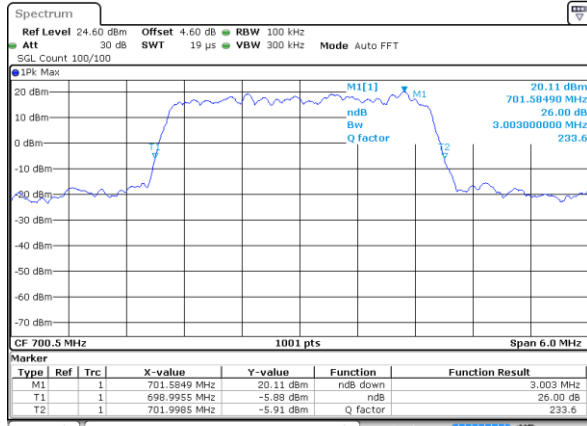


Date: 26 OCT 2019 00:40:01

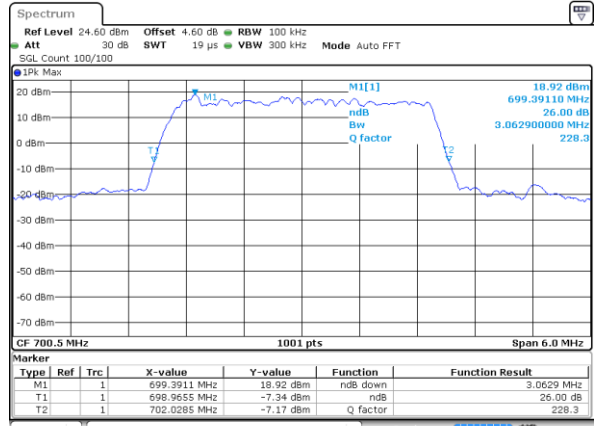


LTE Band 12

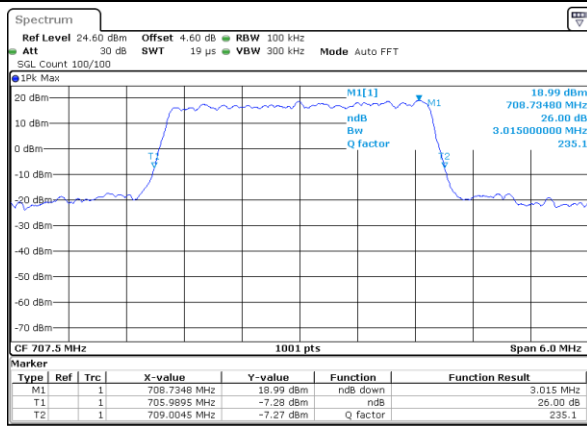
Lowest Channel / 3MHz / QPSK



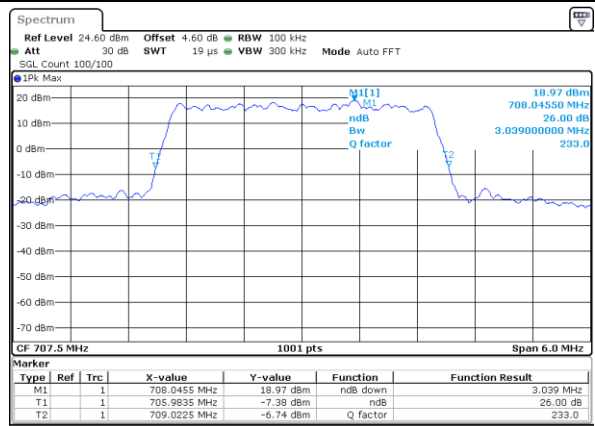
Lowest Channel / 3MHz / 16QAM



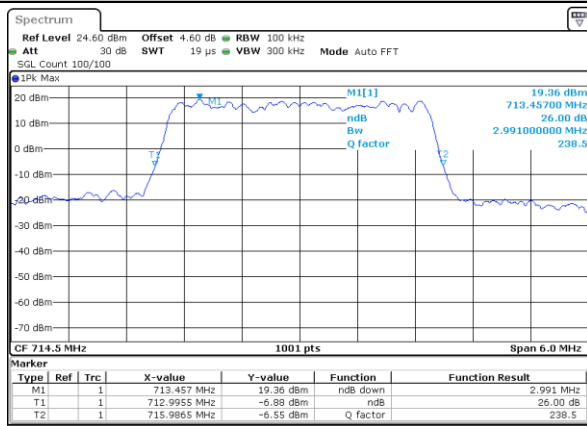
Middle Channel / 3MHz / QPSK



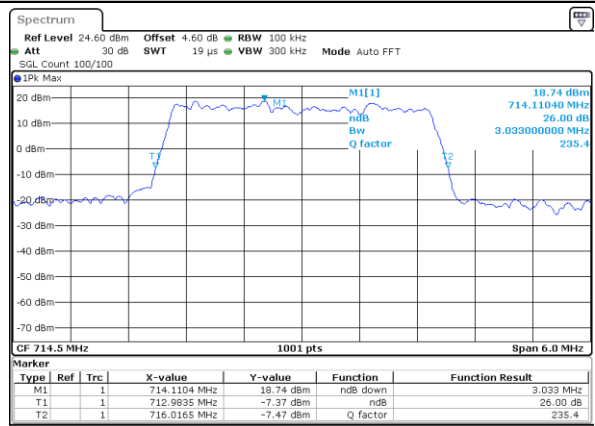
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



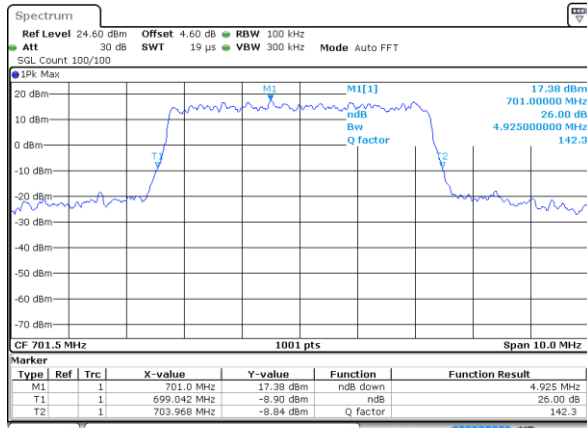
Highest Channel / 3MHz / 16QAM





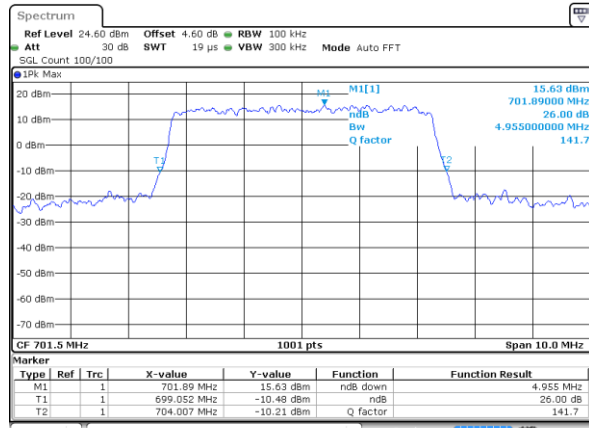
LTE Band 12

Lowest Channel / 5MHz / QPSK



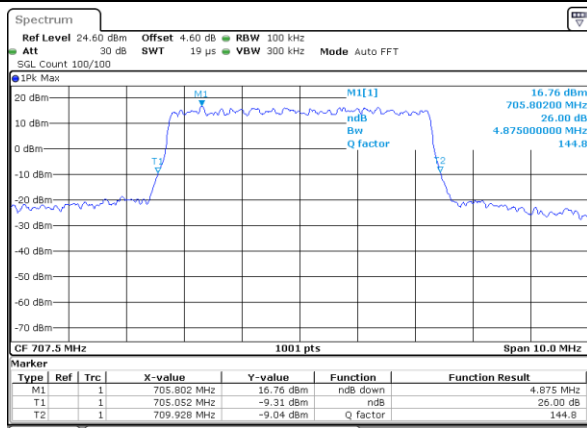
Date: 26 OCT 2019 01:13:38

Lowest Channel / 5MHz / 16QAM



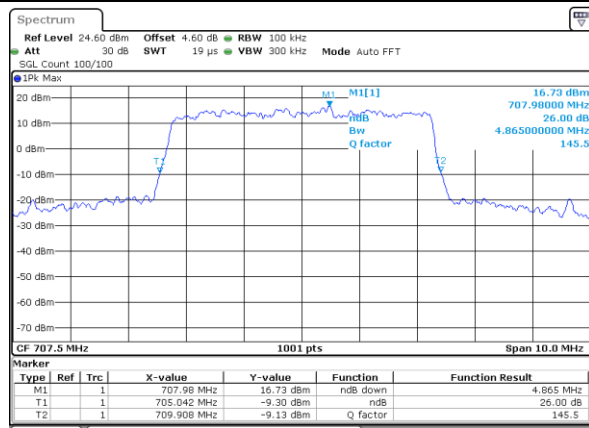
Date: 26 OCT 2019 01:13:28

Middle Channel / 5MHz / QPSK



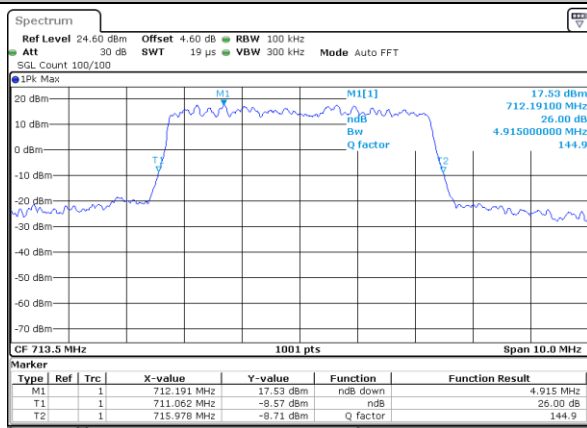
Date: 26 OCT 2019 01:13:08

Middle Channel / 5MHz / 16QAM



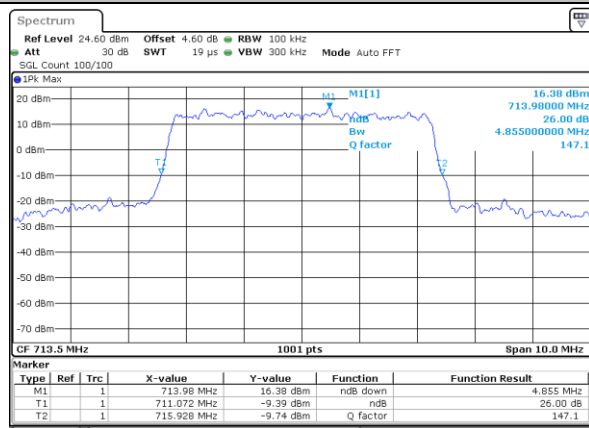
Date: 26 OCT 2019 01:13:18

Highest Channel / 5MHz / QPSK



Date: 26 OCT 2019 01:12:58

Highest Channel / 5MHz / 16QAM

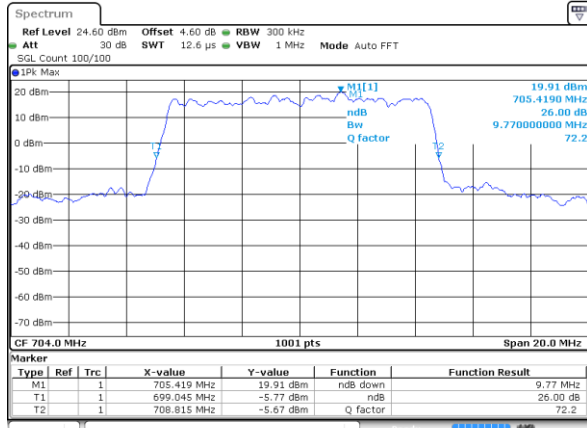


Date: 26 OCT 2019 01:12:48

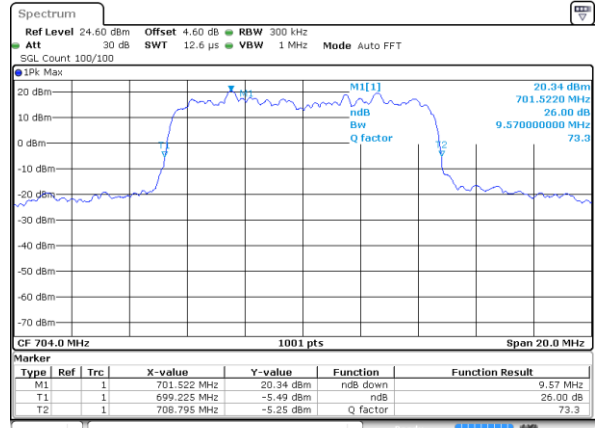


LTE Band 12

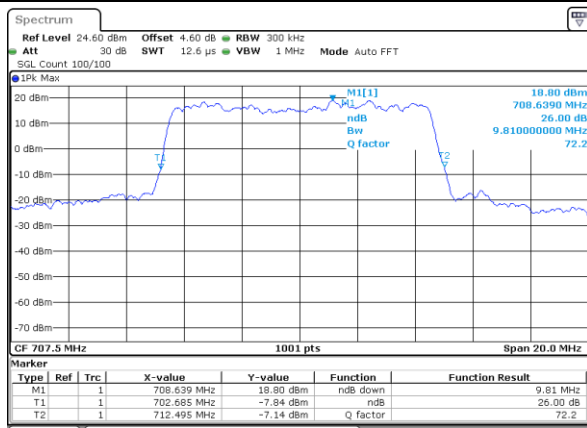
Lowest Channel / 10MHz / QPSK



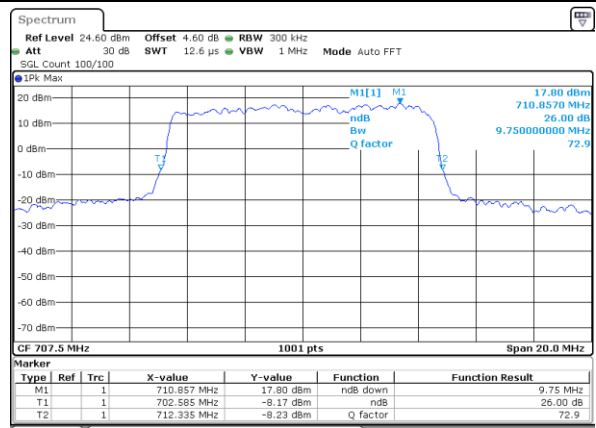
Lowest Channel / 10MHz / 16QAM



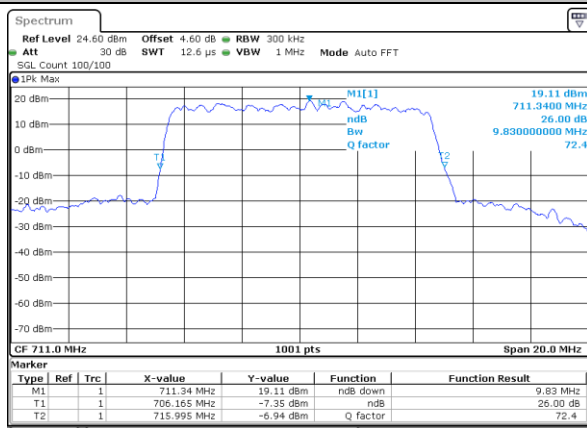
Middle Channel / 10MHz / QPSK



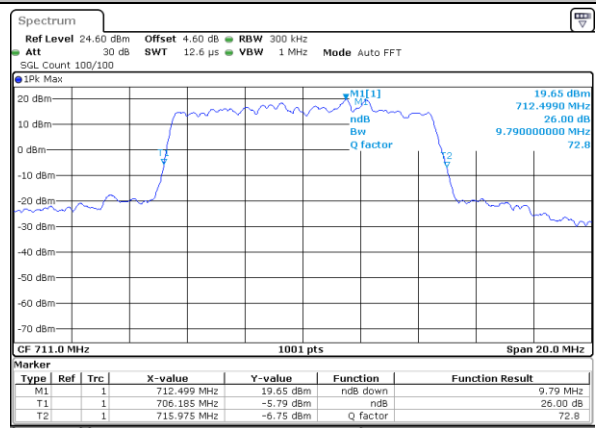
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM





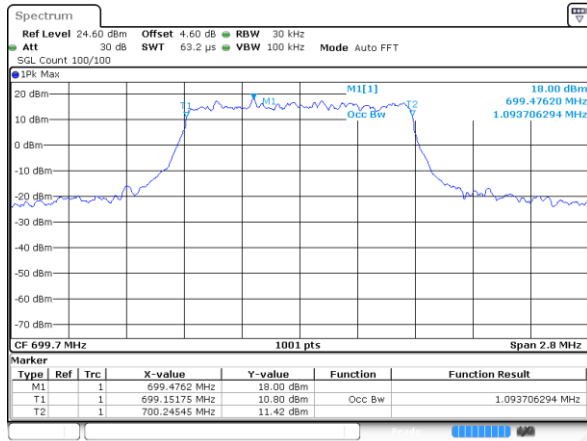
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)							
BW	1.4MHz		3MHz		5MHz		10MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.094	1.097	2.697	2.739	4.496	4.496	8.971	8.991
Middle CH	1.085	1.102	2.697	2.721	4.476	4.486	9.011	8.971
Highest CH	1.097	1.091	2.715	2.721	4.486	4.486	8.991	8.931

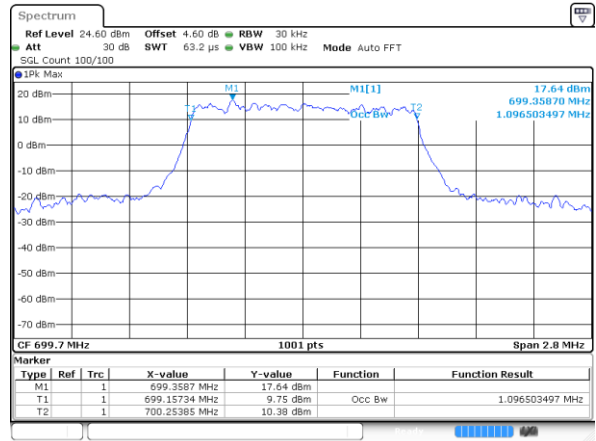


LTE Band 12

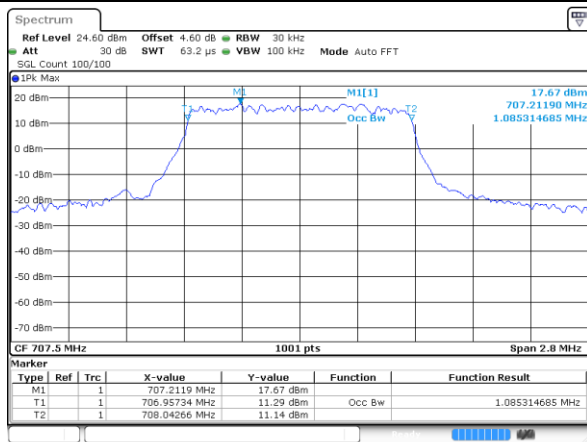
Lowest Channel / 1.4MHz / QPSK



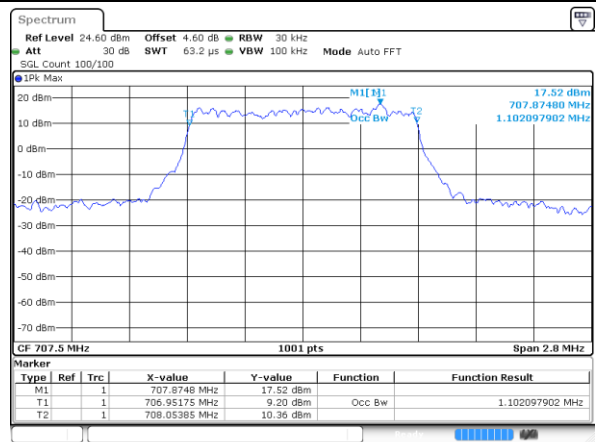
Lowest Channel / 1.4MHz / 16QAM



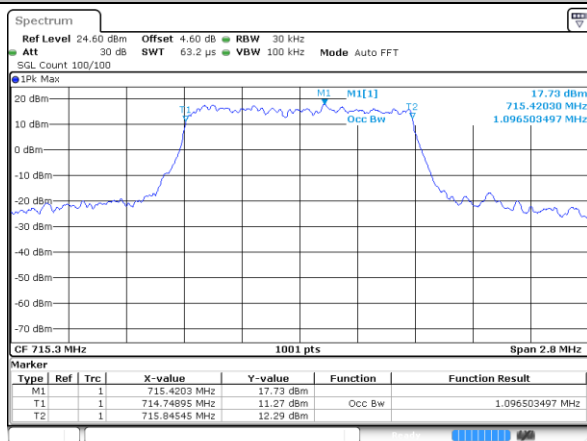
Middle Channel / 1.4MHz / QPSK



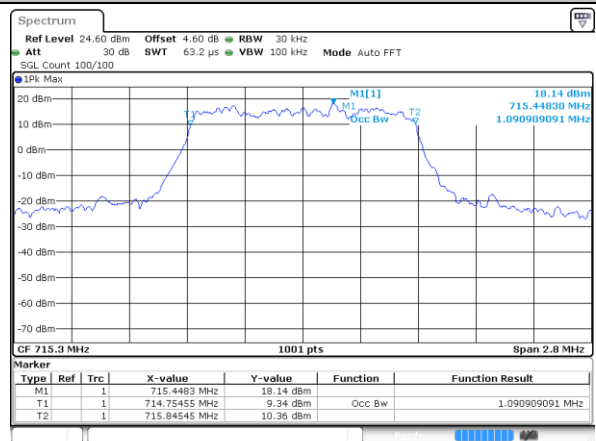
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



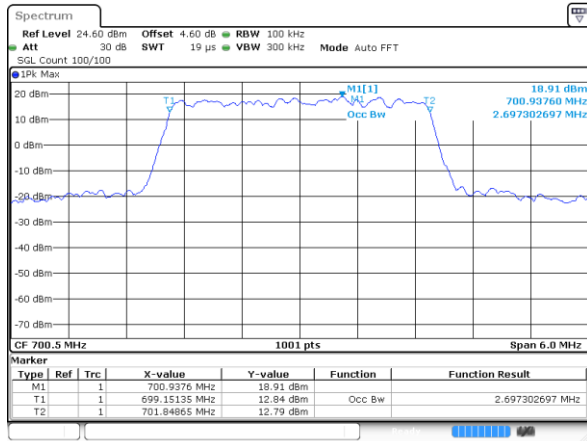
Highest Channel / 1.4MHz / 16QAM



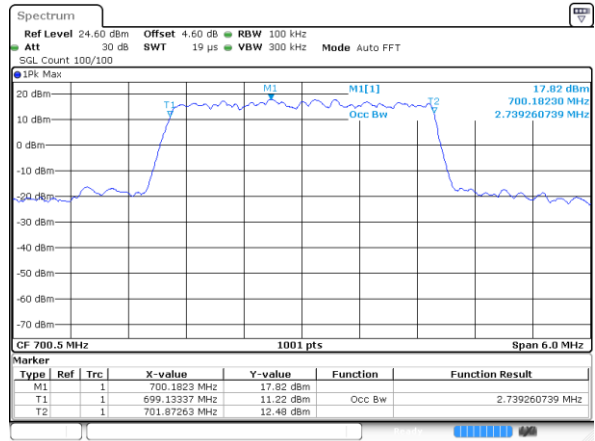


LTE Band 12

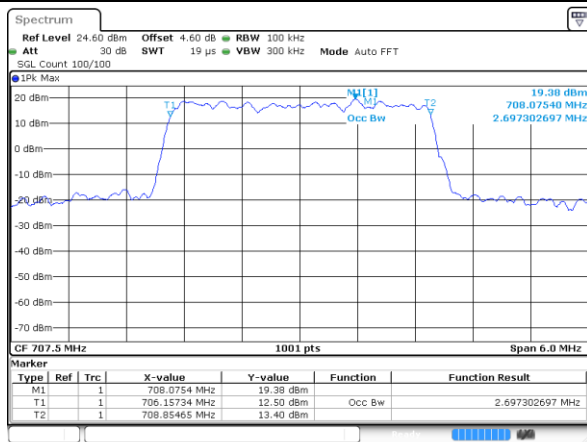
Lowest Channel / 3MHz / QPSK



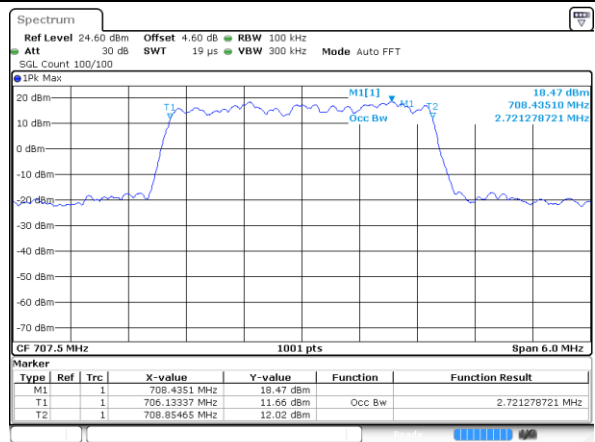
Lowest Channel / 3MHz / 16QAM



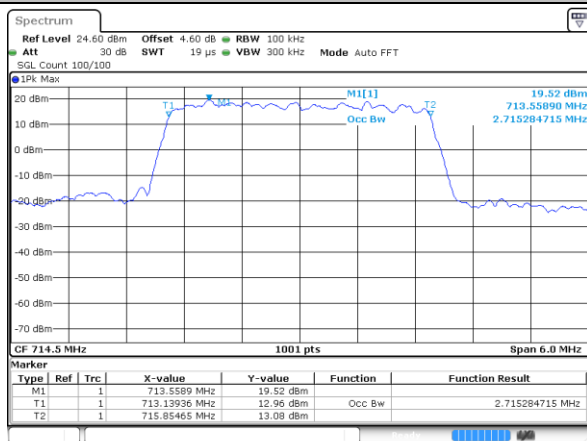
Middle Channel / 3MHz / QPSK



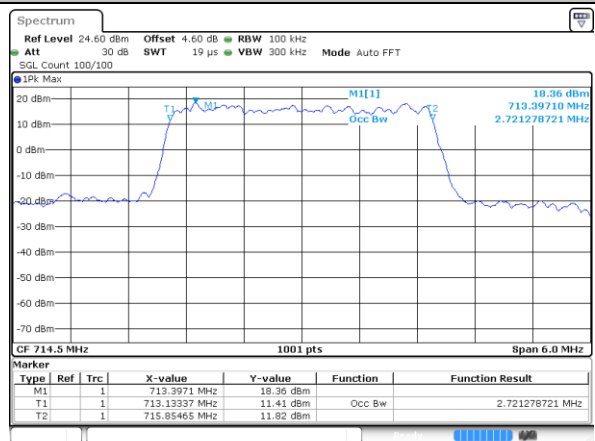
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



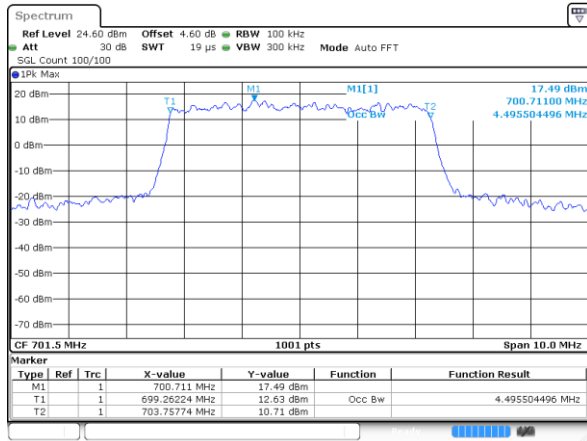
Highest Channel / 3MHz / 16QAM



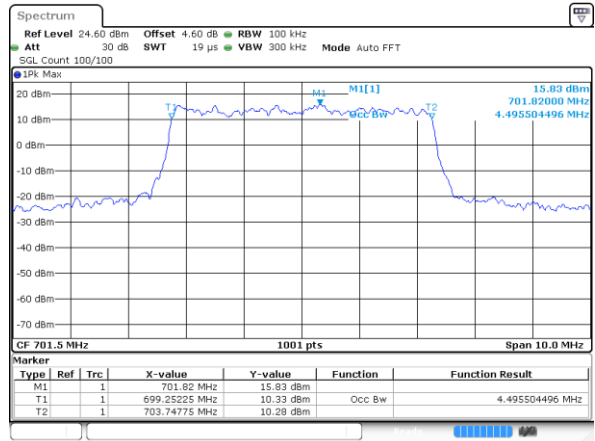


LTE Band 12

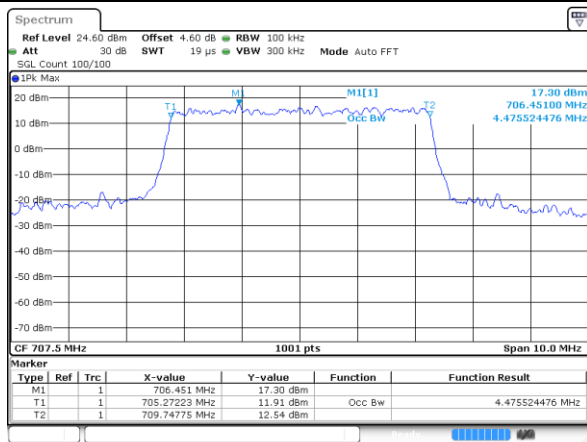
Lowest Channel / 5MHz / QPSK



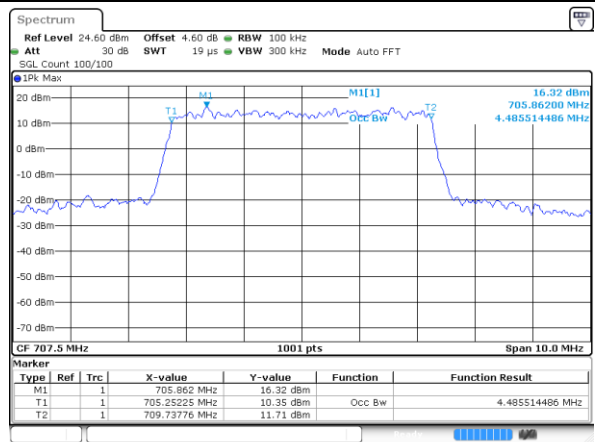
Lowest Channel / 5MHz / 16QAM



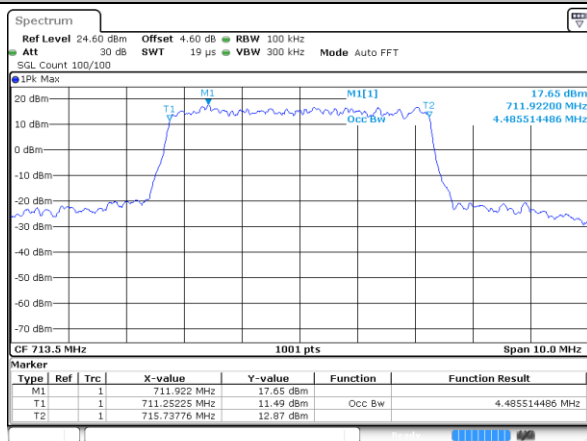
Middle Channel / 5MHz / QPSK



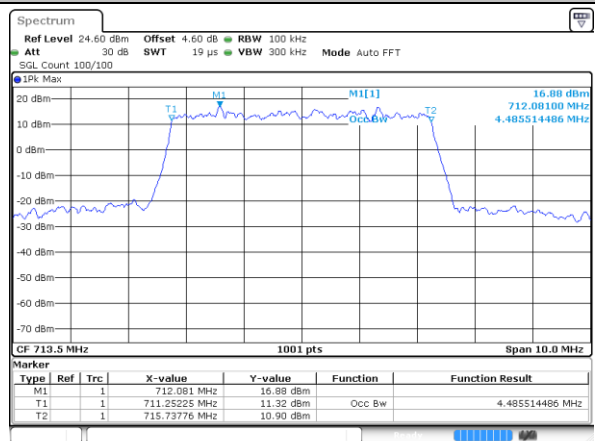
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



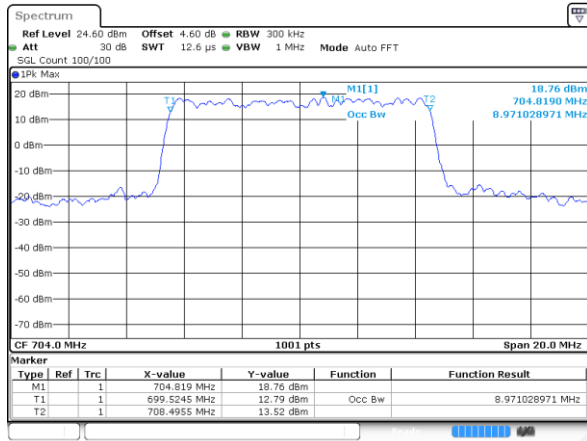
Highest Channel / 5MHz / 16QAM





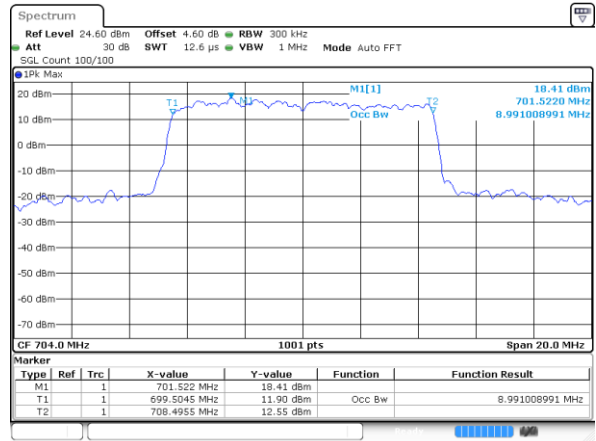
LTE Band 12

Lowest Channel / 10MHz / QPSK



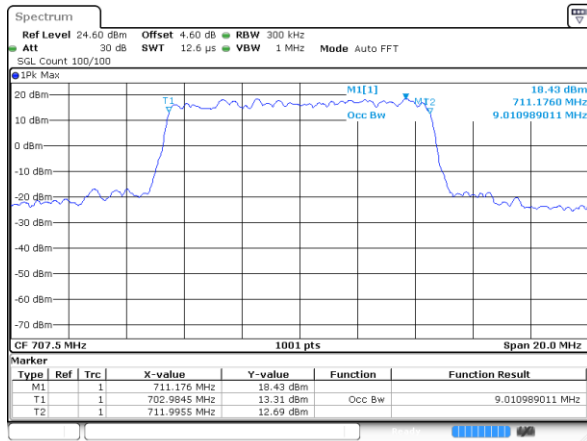
Date: 26 OCT 2019 01:28:12

Lowest Channel / 10MHz / 16QAM



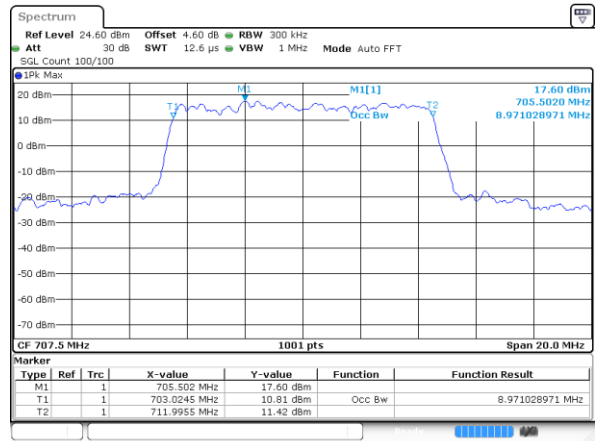
Date: 26 OCT 2019 01:28:22

Middle Channel / 10MHz / QPSK



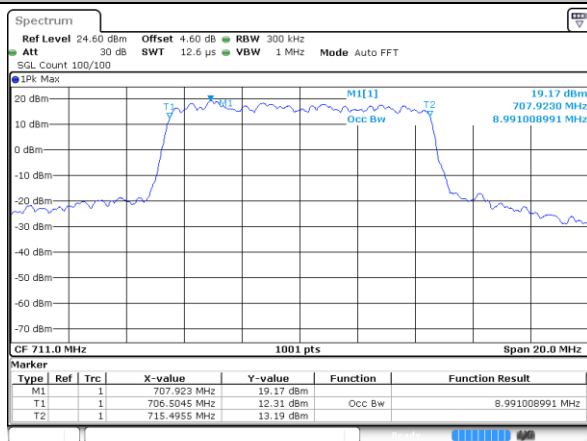
Date: 26 OCT 2019 01:28:42

Middle Channel / 10MHz / 16QAM



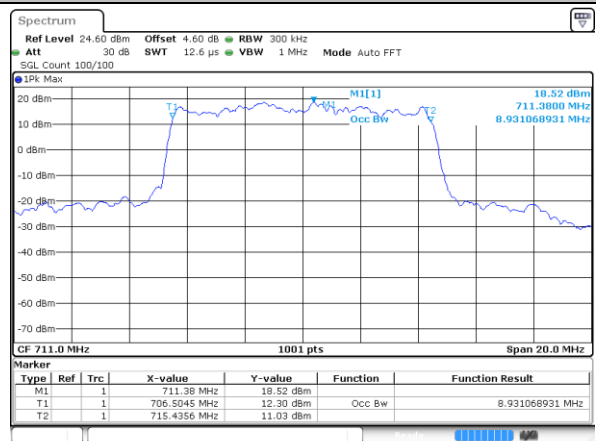
Date: 26 OCT 2019 01:28:32

Highest Channel / 10MHz / QPSK



Date: 26 OCT 2019 01:28:51

Highest Channel / 10MHz / 16QAM



Date: 26 OCT 2019 01:29:01

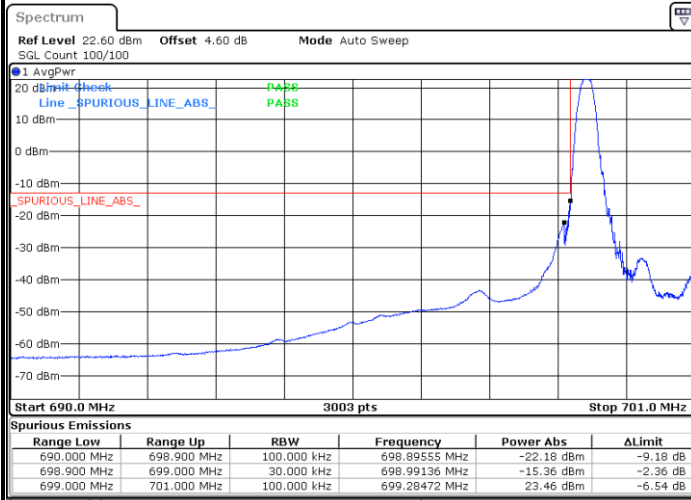


Conducted Band Edge



LTE Band 12 / 1.4MHz / QPSK

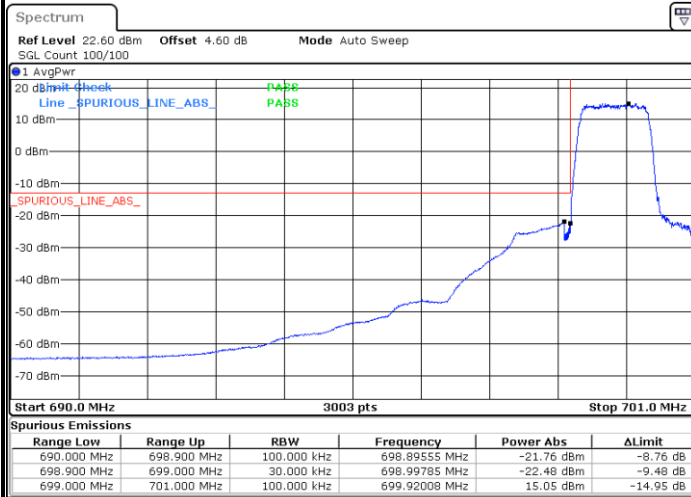
Lowest Band Edge / 1 RB



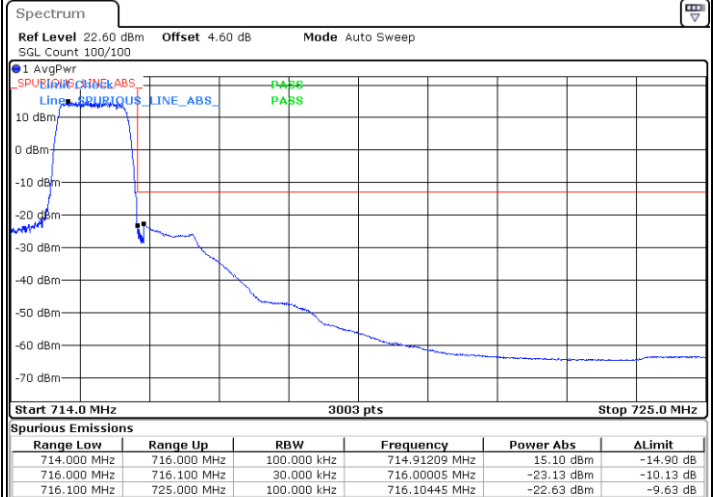
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



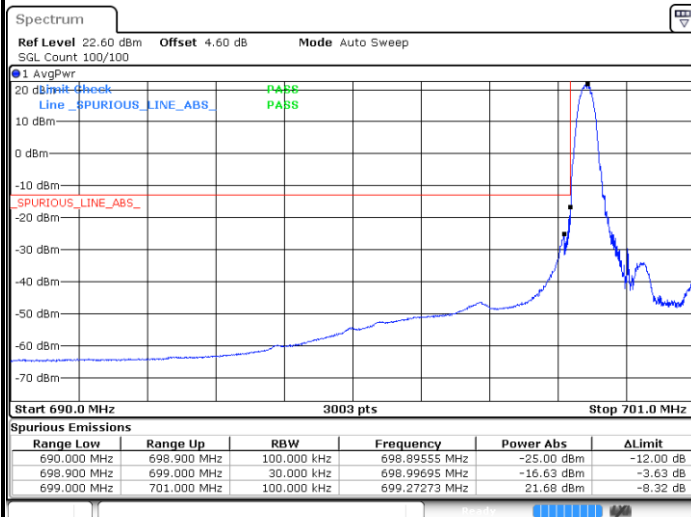
Highest Band Edge / Full RB



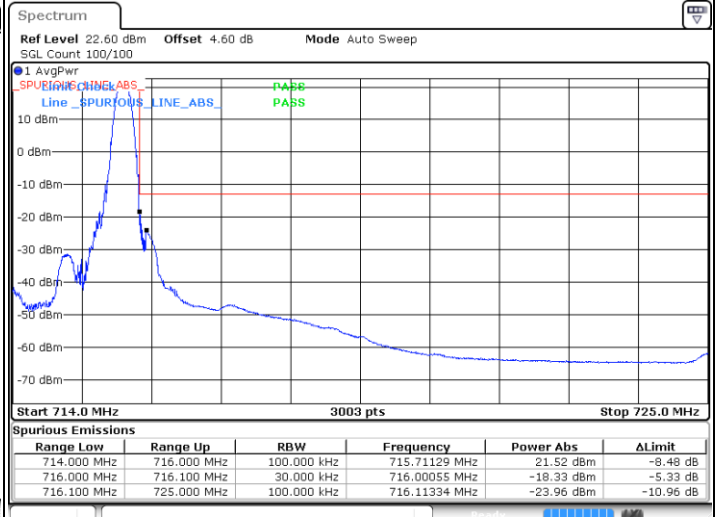


LTE Band 12 / 1.4MHz / 16QAM

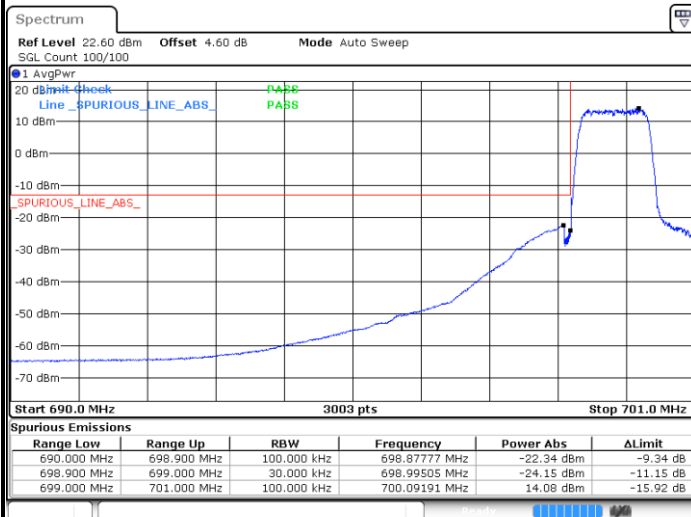
Lowest Band Edge / 1 RB



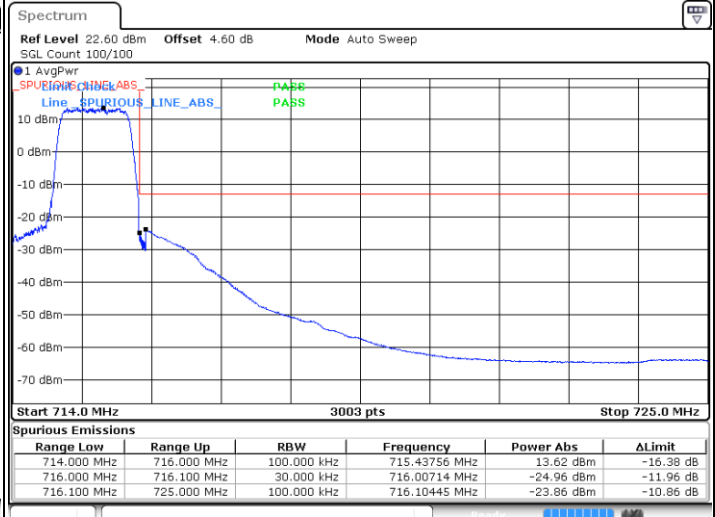
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



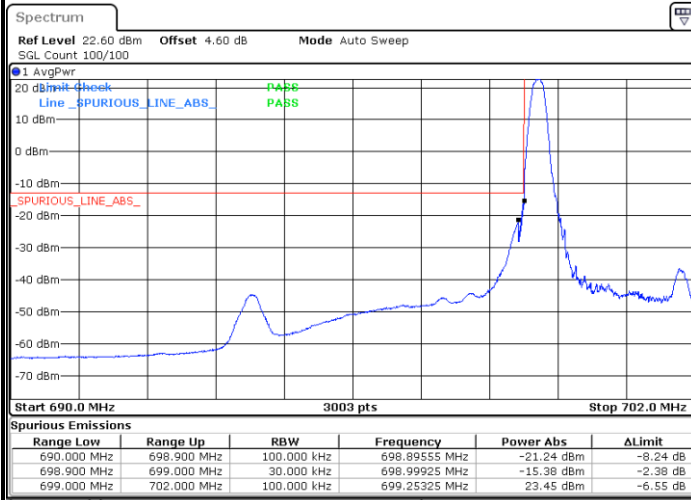
Highest Band Edge / Full RB



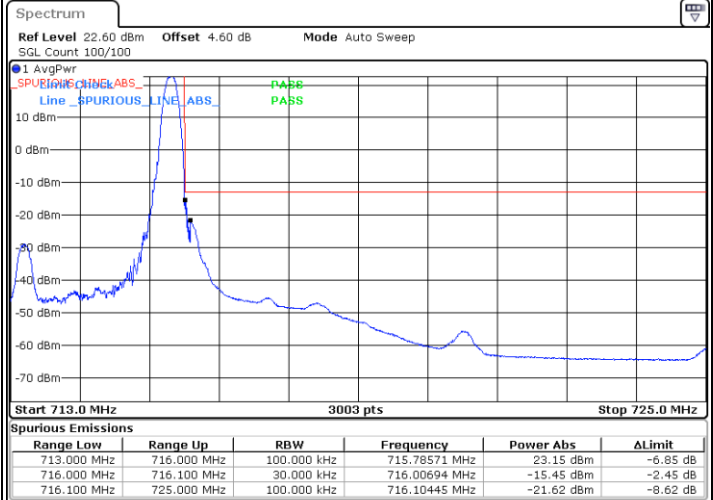


LTE Band 12 / 3MHz / QPSK

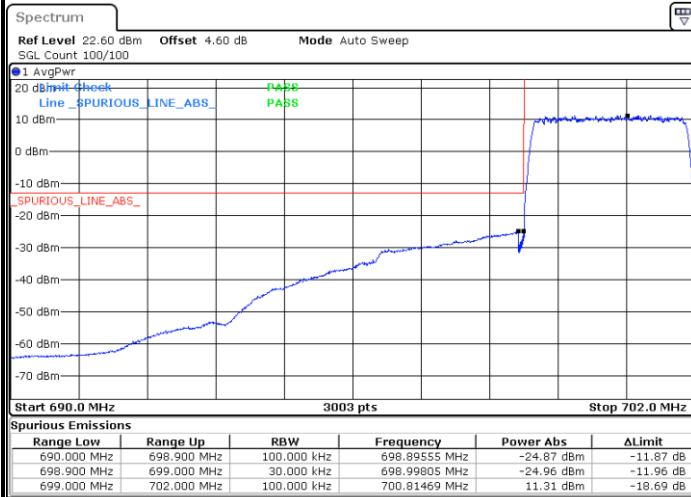
Lowest Band Edge / 1RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



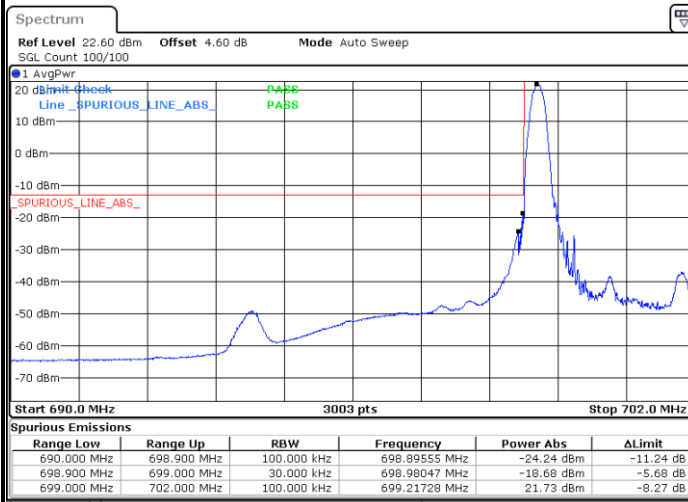
Highest Band Edge / Full RB





LTE Band 12 / 3MHz / 16QAM

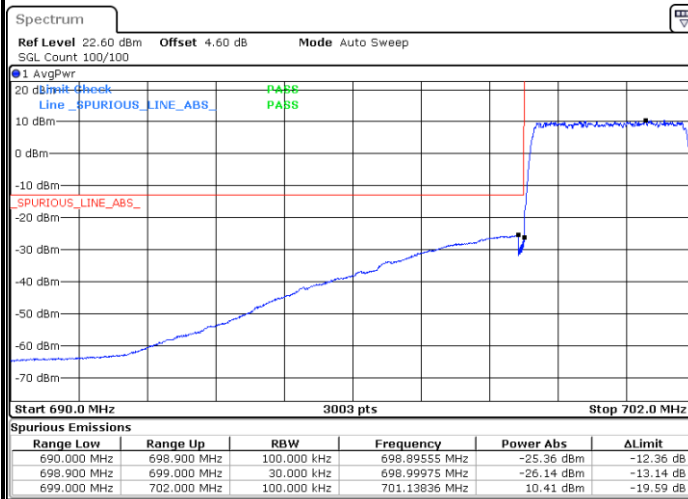
Lowest Band Edge / 1 RB



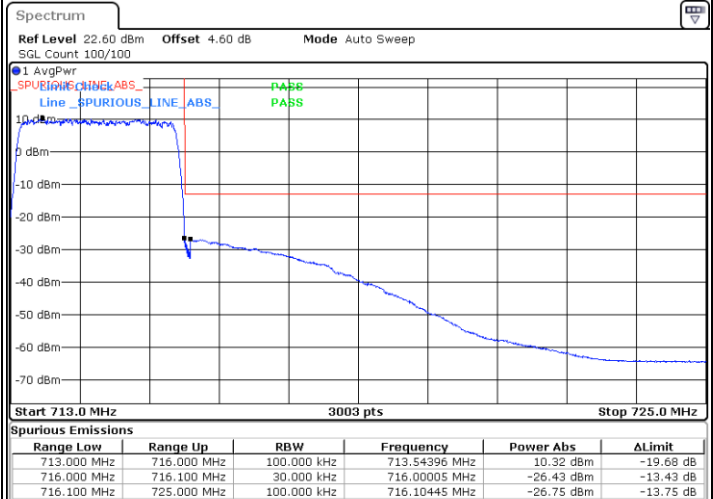
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



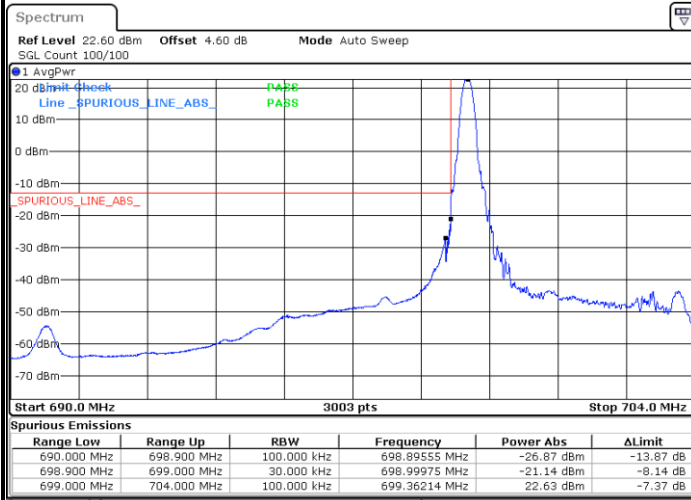
Highest Band Edge / Full RB



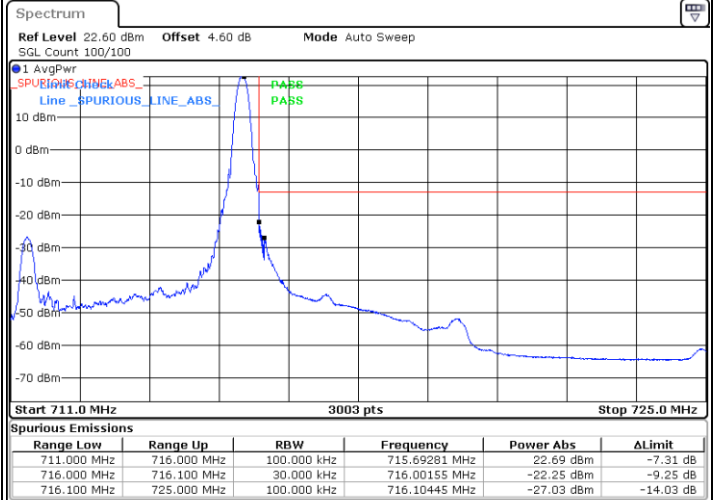


LTE Band 12 / 5MHz / QPSK

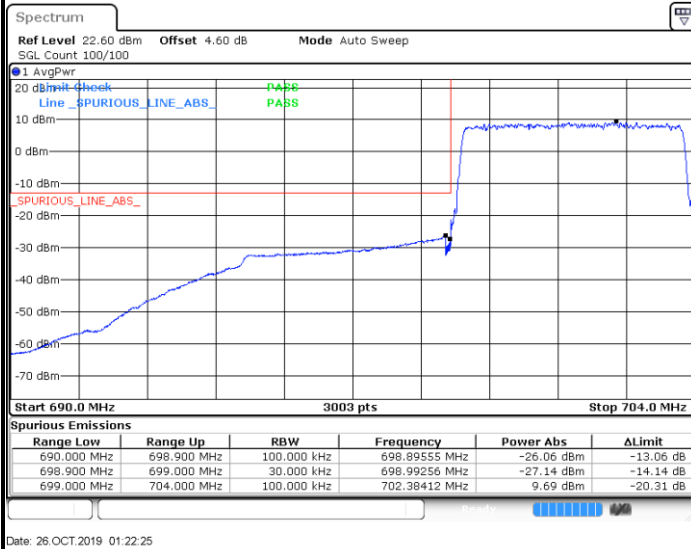
Lowest Band Edge / 1 RB



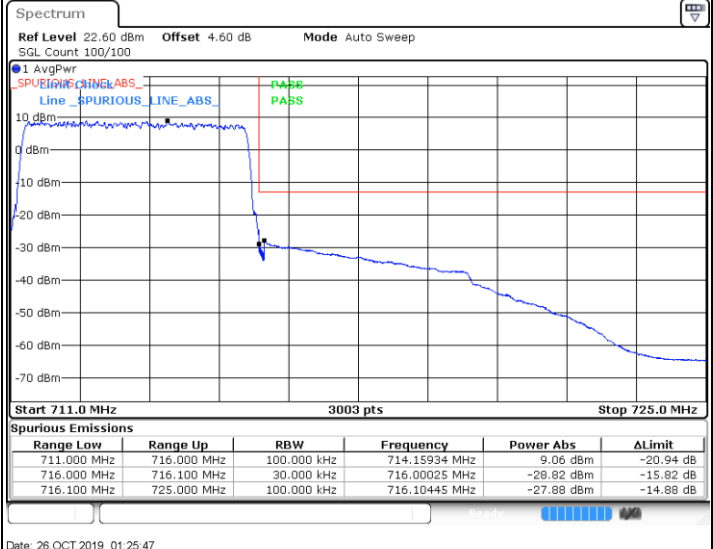
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



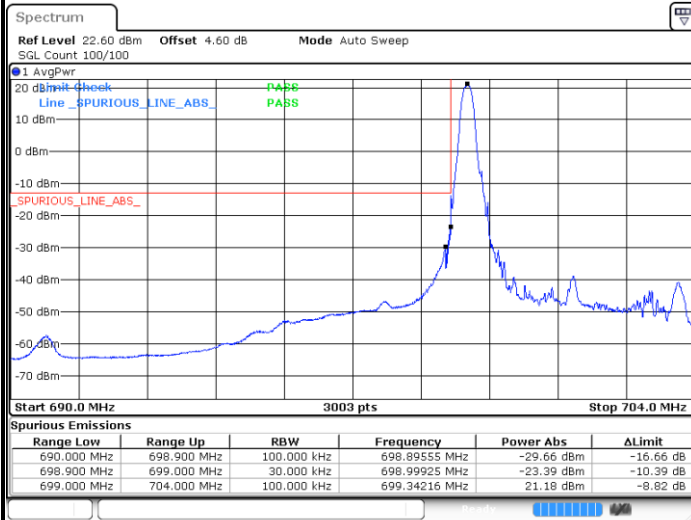
Highest Band Edge / Full RB



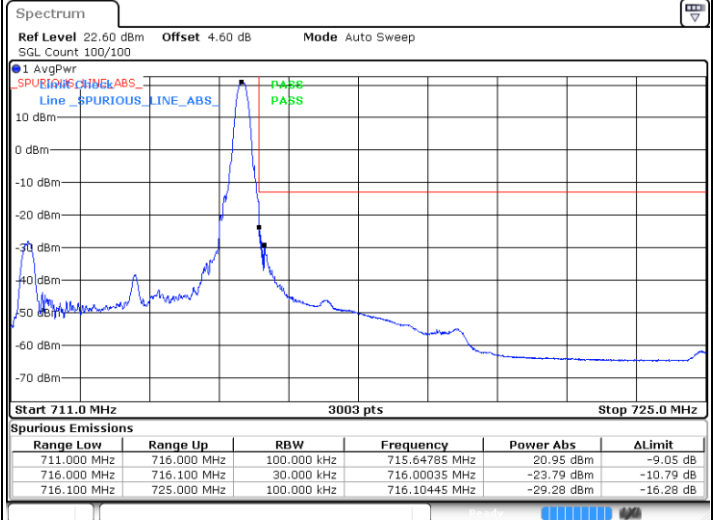


LTE Band 12 / 5MHz / 16QAM

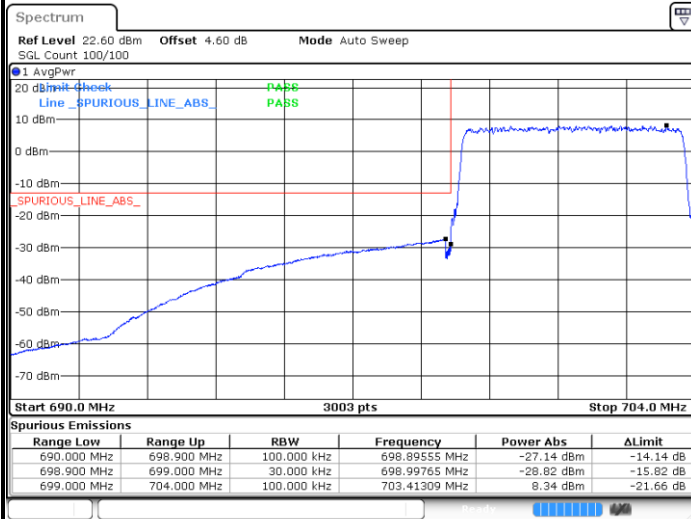
Lowest Band Edge / 1RB



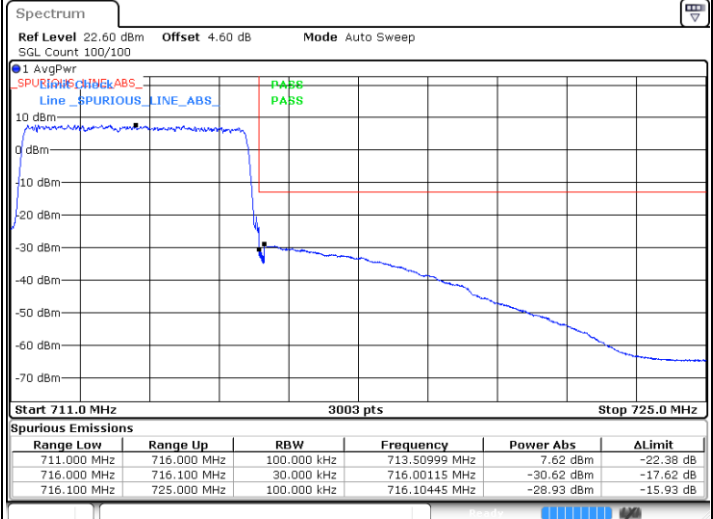
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



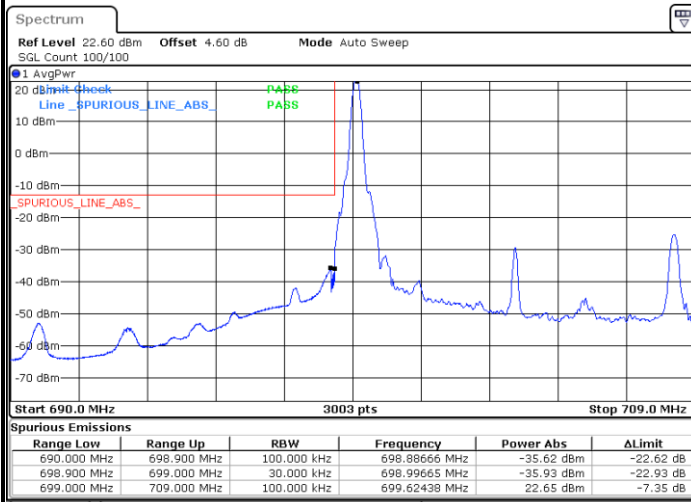
Highest Band Edge / Full RB



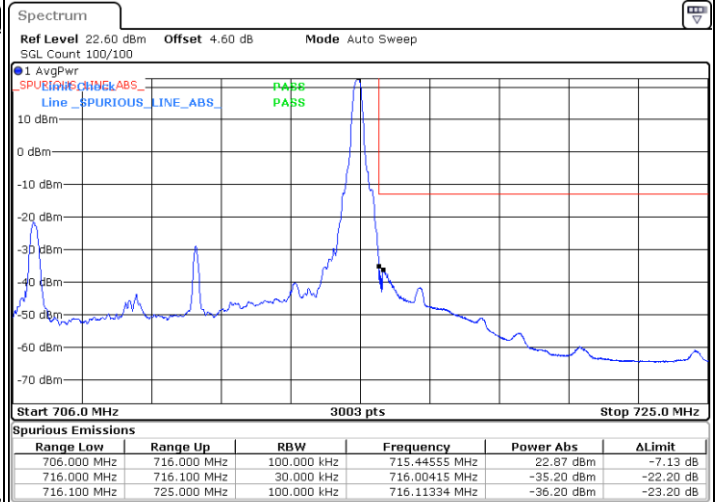


LTE Band 12 / 10MHz / QPSK

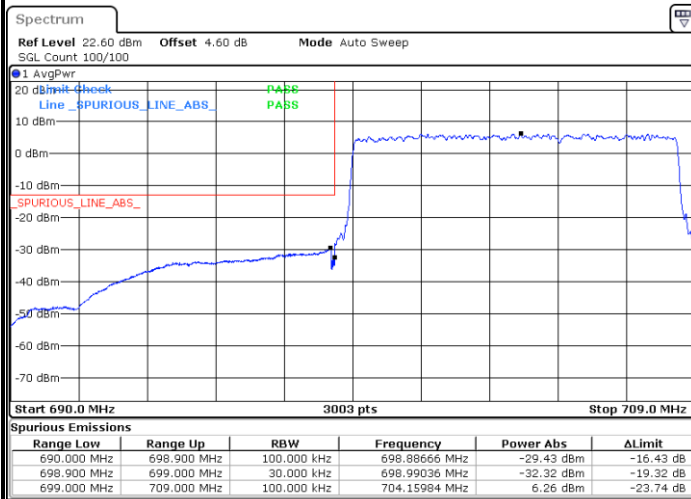
Lowest Band Edge / 1 RB



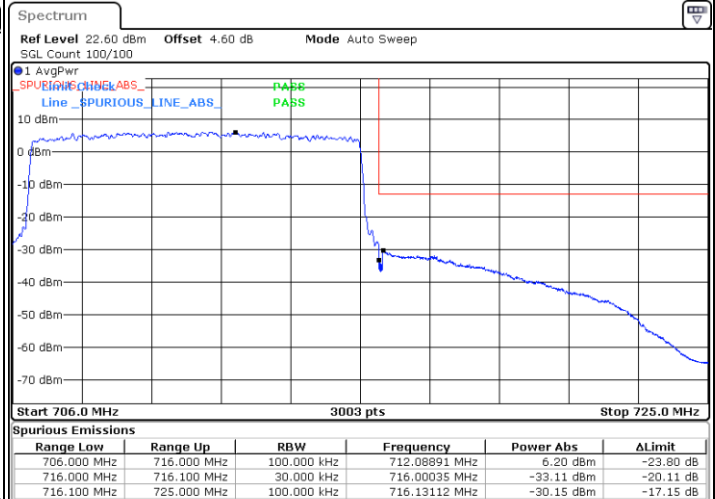
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



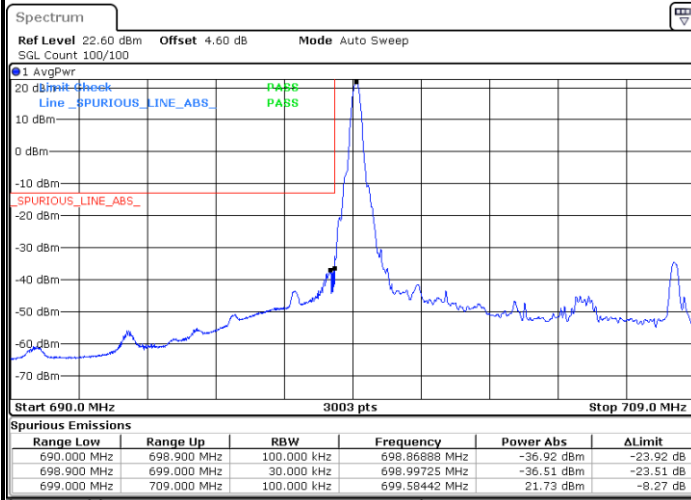
Highest Band Edge / Full RB



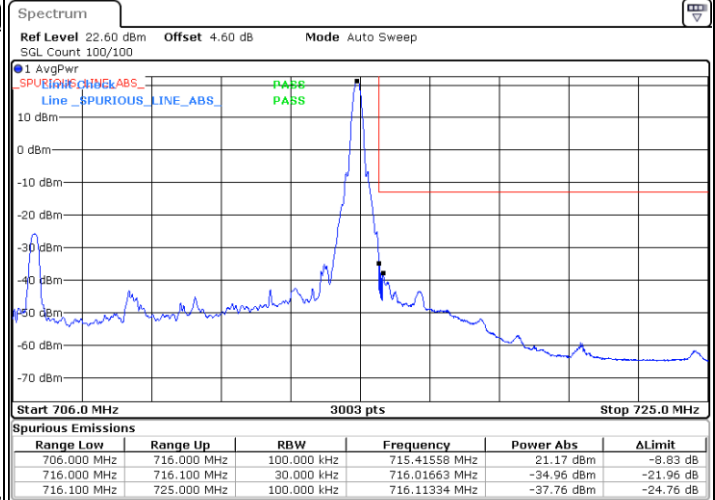


LTE Band 12 / 10MHz / 16QAM

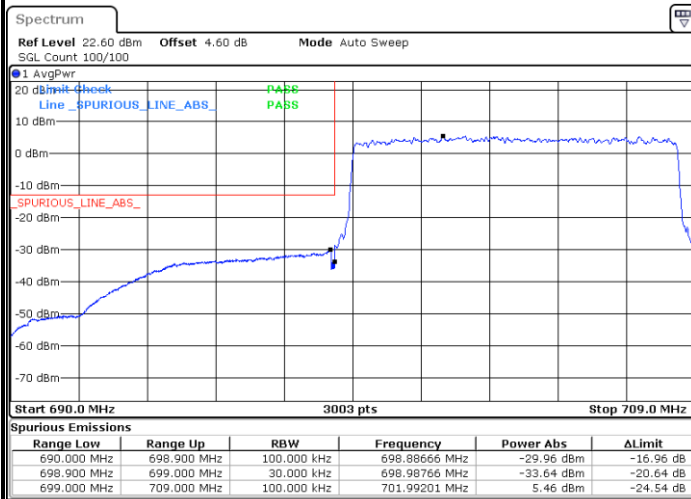
Lowest Band Edge / 1 RB



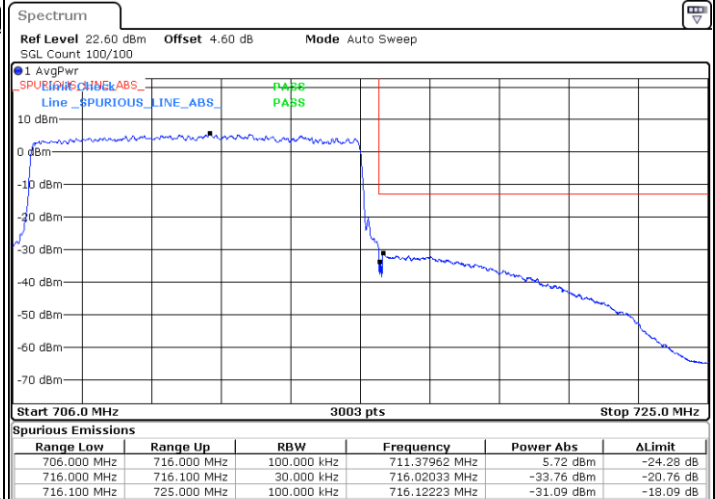
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB





Conducted Spurious Emission